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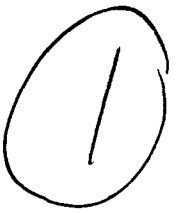

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SEVERAL MODIFIED GOODNESS-OF-FIT TESTS FOR THE CAUCHY DISTRIBUTION WITH UNKNOWN SCALE AND LOCATION PARAMETERS

THESIS

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First Lieutenant, TUAF

AFIT/GOR/ENS/94M-09

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THESIS

Presented to the Faculty of the Graduate School of Engineering
of the Air Force Institute of Technology
Air University
In Partial Fulfillment of the
Requirements for the Degree of
Master of Science in Operations Research

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THESIS APPROVAL

STUDENT: 1Lt BORA H. ÖNEN CLASS: GOR-94M

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FOR THE CAUCHY DISTRIBUTION
WITH UNKNOWN LOCATION AND SCALE PARAMETERS

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Preface

This thesis develops powerful goodness-of-fit tests for the Cauchy distribution with the unknown location and the scale parameters. It gives some insight to relatively new techniques which are reflection or directional tests and sequential or omnibus tests.

This thesis has been completed with the tremendous amount of helps coming from my advisor Albert H. Moore. I am gratefull for his knowledge, background, help and suggestions. It has been great pleasure to work with him. My thanks also go to my commitee members Dr. J. P. Cain and Maj. B. W. Woodruff for their understandings and valuable suggestions.

I am and will be forever grateful to my country and Turkish Air Force for giving me such an opportunity. And my lovely classmates who never let us feel lonely and who always have been with us during the sleepless nights of AFIT, thank you all. You gave us the wonderfull chance to know some other culture and life-style. I will always remember you and AFIT which has opened a new era in my mind and life.

I would like my parents Cavit and Özden Önen for trusting me since the day I was born and providing me the best educational opportunities. I also appreciate my upper class graduates Tamer Özmen his wife Özlem and Erol Yücel for their encouraging and helping us in the first year. Also my classmate Ertem Mutlu, his wife Nilgun and their lovely daughter Niler, what you have done for me is unforgetable.

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This work is dedicated to my wife Öznur who has always been with me in my hard and good times. Thanks for your patience. Now it is all our time !...

Bora H. ÖNEN

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Abstract

Several goodness-of-fit tests such as the Kolmogorov-Simirnov and the Kuiper are studied for the Cauchy distribution with the unknown location and scale parameters. The parameters are estimated by maximum likelihood estimation. Monte Carlo simulation studies were performed to calculate the critical values for standard Kolmogorov-Simirnov and the Kuiper tests. Then a reflection technique is introduced and the critical value tables are calculated for both the Reflected Kolmogorov-Simirnov and the Reflected Kuiper tests. Several sequential tests are performed by combining standard Kolmogorov-Simirnov and Kuiper in one test, standard Cramer-von Mises and the standard Kuiper in the other and finally the reflected Cramer-von Mises and the standard Kuiper in the last one. The computed critical values are then used for testing whether a set of observations follows a Cauchy distribution when the scale and location parameters are not known and to be estimated from the sample. The Monte Carlo simulations used 50000 repetitions for sample sizes of 5 through 50 with increament of 5. Throughout the study the location parameter is taken as 0 while the scale parameter is kept at 10.

Power studies corresponding to each case are done and the results are presented in tables. The power studies are performed for sample sizes 5 through 50 and for $\alpha = 0.01, 0.05, 0.10, 0.15, 0.20$ for the standard and the reflected tests. For sequential tests power studies have been accomplished for all of the significance level produced by combining two individual tests at form $\alpha = 0.01$ to 0.20 with the increament of 0.01. The Kuiper test turns out to have an overwhelming power against all distributions in standard case. The reflection technique gives an amazing improvement in the power against symmetric distributions. The reflected Kolmogorov-Simirnov has the same power as the reflected Kuiper test. Sequential tests give interesting results depending on the combination of the individual tests.

SEVERAL MODIFIED GOODNESS-OF-FIT TESTS FOR THE CAUCHY DISTRIBUTION WITH UNKNOWN SCALE AND LOCATION PARAMETERS

I. Introduction

Big organizations such as big factories or the Air Force always need to analyze their systems or subsystems to improve the efficiency and production level along with the quality. They try to reduce the harmful results caused by the inappropriate analysis. Since such organizations face with complex and analytically hard problems, they need to employ statistical or simulation techniques rather than mathematical formulations. In fact, simulation and statistics are hard to separate when it comes to complex systems, because one's output usually appears to be the other's input. The basic step in the analysis of a complex system is to model the system parts. Usually the parts, the whole system or the processes can be modeled by one of the known statistical distribution functions.

At this stage, some data derived out of the system serve as a reference to decide which distribution could model the system in the best way. The data is taken under some statistical processes and then the distribution which can model the system is determined. Thus, the problem becomes to test how well the sample fits to a hypothesized distribution. If a reasonable result is observed then the analysis can be carried on using that specific distribution as the model of the system part. Otherwise one could search for a better distribution.

The statistical test which checks if the hypothesized distribution fits to the sample data is called *goodness-of-fit* (GOF) test [37:1]. Basically, GOF tests measure the

agreement between observed sample data and a theoretical statistical distribution. There are different types of goodness-of-fit tests and test statistics proposed so far. Among those, the most common tests are the *Chi-squared* (χ^2) and the *Kolmogorov-Smirnov* (KS) tests. Besides these, *Anderson-Darling* (A^2) and *Cramer-von Mises* (CM) are the other famous GOF tests [20:382:392]. In general GOF tests are separated into two categories : (a) completely specified and (b) the modified goodness-of-fit tests [40:115]. In the completely specified tests, the true values of the parameters of the hypothesized distribution are known while in the modified GOF tests the parameters have to be estimated from the data. "If one foolishly used tables for the completely specified case when the parameters are estimated then the actual error is much smaller than the specified value so strongly biasing the test towards acceptance that it is almost equivalent to accepting H_o without testing" [40:115]. Here the null hypothesis is

H_o : The X_i's are i.i.d. random variables with the distribution function $F(x)$.

Therefore, in the modified goodness-of-fit tests the parameter estimation gains importance. Although there exist many different estimation techniques, one requirement to make the GOF test tables useful is to have invariant estimators. For this reason, the method of maximum likelihood has been recommended by many statisticians. The likelihood function tells us how likely the observed sample is as a function of the possible parameter values. Maximizing the likelihood gives the parameter values for which the observed sample is most likely to have been generated, that is, the parameter values that agree most closely with the observed data [8:247-248].

1.1 Background

The Cauchy distribution is one of the interesting continuous distributions. Because it has no mean and variance theoretically and therefore the Central Limit Theorem is not applicable to this distribution [22:251-252]. The Cauchy gains its

importance by giving a good approximation to the normal distribution. Besides, in physics and the nuclear theory it has very wide applications [22:276]. On the other hand, the Cauchy distribution can model some economic concepts which require heavy-tailed symmetric distributions and that cannot be handled by the normal accurately [9]. These different application areas make the Cauchy distribution valuable and worthwhile to examine. Especially in the 70's, different studies on the Cauchy distribution have been accomplished mostly focusing on the proper estimation methods.

The maximum likelihood estimators (MLE) were believed to have multiple roots or end up with local maximas [4]. Therefore different estimation methods were proposed. Weiss and Howlader studied on the linear estimation method for the location parameter and came up with a coefficient table [38]. Spory computed the coefficients for the best linear invariant estimation of the location and the scale parameters [34]. Koutrouvelis proposed a method for the estimation of the location and the scale parameter using empirical characteristic function [19]. Howlader and Weiss modified the Bayesian estimation and came up with the estimates comparable with MLE [15]. Higgins and Tichenor used windows estimates [13] and concluded that window estimates appear to have high efficiency for moderate and large sample sizes for specifically the Cauchy distribution and in general for the heavy-tailed distributions [14:164]. Bai and Fu proved that the MLE of location parameter converges to true parameter as opposed to the belief that the Cauchy is a possible example for the failure of maximum-likelihood method [3:140]. Haas, Bain and Antle gave iterative equations to compute MLE's [11:404].

In the literature there has been a few studies on the goodness-of-fit tests for the Cauchy distribution. One study was done by Stephens in 1990 [36]. He used weighted order statistics in estimation of the parameters. The test statistics he used for the study were Anderson Darling, Watson and Cramer-von Mises statistics. He presented a percentage point table for these statistics but didn't employ a power

study. Another study was accomplished by Ocasio as a master's thesis [26]. He used Kolmogorov-Smirnov, Anderson-Darling, and Cramer-von Mises test statistics and also presented a power study. He concluded that the Kolmogorov-Smirnov test is the most powerful among those three for any sample size [26:35]. The latest study was accomplished by Moore and Yen [23]. They applied Cramer-von Mises and Anderson-Darling tests to the Cauchy distribution and employed the reflection technique which is fairly new technique. They present the critical value tables for both cases of the tests. Moore and Yen also accomplished a power study and presented the results.

1.2 Problem Statement

The powers of the previously done GOF tests for the Cauchy distribution are not too high due to the method of estimation of the parameters and the EDF statistics used. We suggest an appropriate choice of the estimation method along with the EDF statistic could result with a high power goodness-of-fit test. Specifically, it is believed that using MLEs and Kuiper statistic, a powerful test can be generated. Besides a new technique, reflection, can improve the power against symmetric distributions. On the other hand, the combination of two tests which is known as omnibus test might give some relative improvement.

1.3 Scope

The purpose of the research is to apply Kolmogorov-Smirnov statistics and Kuiper to derive accompanying critical values and make a power study for the comparison of different methods. The critical values for the KS test have already been derived by Ocasio. But this research intends to improve the accuracy. On the other hand for both tests, the new technique will be applied and the accompanying critical value tables will be derived along with the power studies. The last intention of this study is to look at couple of different sequential tests and their behavior.

1.4 Overview

The second chapter includes an extensive introduction of the Cauchy distribution and detailed discussion of the proposed estimation methods. Chapter 3 introduces goodness-of-fit tests, Monte Carlo analysis and some basics of Monte Carlo analysis such as random number generation. Chapter 4 gives a detailed explanation of the methodology used in this study. The results are presented in Chapter 5 as tables and graphs, and some analysis is presented. Chapter 6 lists the highlight of the results and includes some future study topics. Sample computer codes for all different tests and the power studies are presented in the Appendices. Also the complete tables and graphs of the sequential test results are presented in the Appendices.

II. Cauchy Distribution

2.1 Distribution Function

The Cauchy distribution is a special form of the Pearson Type VII distribution [17:154]. On the other hand, it is also a member of t-family which has 1 as the degrees of freedom [22:277]. It is symmetric around the location parameter and looks like the normal except for the heavy tails. The probability density function and the cumulative distribution function are given respectively as

$$f(x) = \frac{1}{\pi\psi(1 + (\frac{x-\lambda}{\psi})^2)} \tag{1}$$

$$F(x) = \frac{1}{2} + \frac{1}{\pi}\arctan(\frac{x-\lambda}{\psi}) \tag{2}$$

where λ and ψ are the location and scale parameters respectively [17:154].

2.2 Characteristic Function

The stable distributions except for the normal which is a special case can not be written explicitly. Instead, they are explained with characteristic functions [9:275]. One definition for the stable distribution is that "if X and Y are two random variables having the same distribution function $F(.)$, then if $F(.)$ is stable the sum of $X + Y$ will also have a distribution function $F(.)$" [9:283]. As will be explained later in this chapter, the Cauchy falls into this group. Even though there exists an explicit form for the Cauchy, the following characteristic function can be used in some cases [19:205]

$$\phi(t) = e^{i\lambda t - \psi|t|} \tag{3}$$

2.3 Properties

The Cauchy distribution has some unusual properties. First of all, it does not posses any finite positive moments [17:154]. Meyer showed that the mean is indeterminate, so does not exists. The second moment is infinite, so the variance cannot be explained [22:251-252]. Besides there is no way to explain the skewness and kurtosis explicitly which are the functions of the third and the fourth moments respectively.

As another result of having no finite mean and variance, the Cauchy doesn't have a standardized form. But usually standard form for this distribution is obtained by assigning 0 and 1 to λ and ψ respectively [17:156]. Doing so, the standard pdf is

$$f(x) = \frac{1}{\pi}\frac{1}{1+x^2} \tag{4}$$

and the cdf

$$F(x) = \frac{1}{2} + \frac{1}{\pi}\arctan(x) \tag{5}$$

One of the main feature of the Cauchy which differs it from the others is that the Central Limit Theorem is not applicable. Kotz derived the pdf of the sum and the mean of n independent Cauchy variables using the characteristic function (3). Then the characteristic function of $S_n = \sum_{i=1}^{n} X_i$ is

$$e^{it\sum_{i=1}^{n}\lambda_i - |t|\sum_{i=1}^{n}\psi_i}$$

So, the mean of two Cauchy variables is again Cauchy-distributed with the same λ and ψ value as each X_i. And the sum has a Cauchy distribution with $\lambda = \sum_{i=1}^{n}\lambda_i$ and $\psi = \sum_{i=1}^{n}\psi_i$ [17:156]. Therefore, the Cauchy is a stable distribution.

The Cauchy distribution gives a good approximation to the normal distribution. But it has longer tails than the normal has. This is shown clearly in Figure

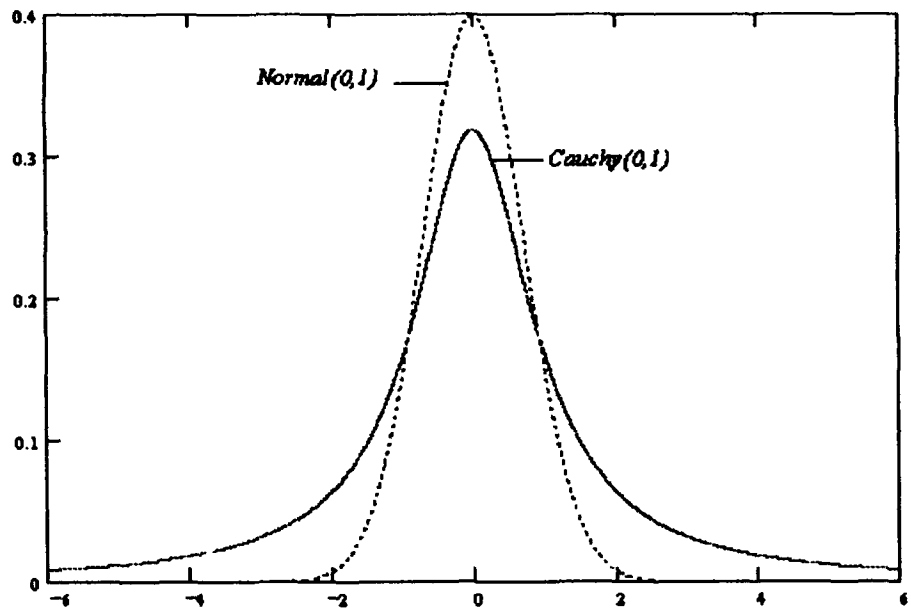

Figure 2.1 Comparison of $C(\lambda = 0, \psi = 1)$ and $N(\mu = 0, \sigma = 1)$

2.1 where the same location and the scale parameters (0 and 1 respectively) were assigned to both distributions.

2.4 Order Statistics

Kotz gives the summary on the order statistics of a Cauchy sample. For the Cauchy variables $X_1, X_2, X_3, ..., X_n$, the corresponding order statistics are $X_1' \leq X_2' \leq X_3' \leq ... \leq X_n'$. The probability density function of these order statistics is given by Kotz as [17:157]

$$p_{X_i'}(x) = \frac{n!}{(i-1)!(n-i)!}\left(\frac{1}{2} + \frac{1}{\pi}\arctan\left(\frac{x-\lambda}{\psi}\right)\right)^{i-1}\left(\frac{1}{2} - \frac{1}{\pi}\arctan\left(\frac{x-\lambda}{\psi}\right)\right)^{n-i}\left(\frac{1}{\pi\psi}\frac{1}{1+\left(\frac{x-\lambda}{\psi}\right)^2}\right)$$

From the pdf above, the variance equation is derived as follows

$$Var(X_i') = \frac{1}{n}\psi^2\pi^2(\frac{i}{n})(1-\frac{i}{n})cosec^4(\frac{\pi i}{n})$$

The expected values of the first and the last order statistics are infinite. So are the variances of the second and the second from the end.

2.5 Parameter Estimation

Since estimation of parameters have a great importance on specifying distributions, in the literature there exist a large amount of studies on the methods of parameter estimation for the Cauchy distribution. Unlike the most known distributions, one famous estimation technique, method of moment estimation, is not applicable to the Cauchy distribution due to the lack of finite moments. On the other hand, since it is a symmetrical distribution and gives a good approximation to the normal distribution, one could think of $\bar{X}$ as an estimator of λ which is the location parameter. But as explained before, $\bar{X}$ has no more information than any single X_i. But instead Kotz states, "The simple form of the cumulative distribution function makes it possible to obtain simple estimators by equating population percentage points (quantiles) and the sample estimators thereof" [17:158]. Based on this idea, he derives the general formulas for the estimators of λ and ψ.

$$\tilde{\lambda} = \frac{1}{2}(X_p + X_{1-p}) \tag{6}$$

$$\tilde{\psi} = \frac{1}{2}(X_p - X_{1-p})tan(\pi(1-p)) \tag{7}$$

where X_p is the p^{th} percentile and $p > 0.5$.

Kotz also concluded that the median, $X_{0.5}$, gives an unbiased estimation for λ. It has become standard to pick $p = .75$ for the estimation of ψ [17:158]. However,

later studies showed that this method doesn't give efficient estimates, but could be used as initial estimates for some iterative methods.

Another estimation method deals with order statistics. The most efficient estimators of this kind was proposed by Barnett, namely the Best Linear Unbiased Estimator (BLUE) [33:14]. Although this method requires the variances and the covariances of the order statistics be calculated first, BLUEs "... achieve full asymptotic and small sample efficiencies of 80% when compared to mle" [33:15]

Later in 1977, Higgins and Tichenor proposed a new estimation technique, called windows estimates [13]. These estimates can be expressed in closed forms and are easy to compute. The study showed that window estimates have the same asymptotic distribution as MLEs and give better results for the heavy-tailed distributions, and the Cauchy distribution in particular. Comparison of windows estimates to MLE revealed that, ψ has high efficiencies for $n \geq 10$ while λ has high efficiencies for $n \geq 20$ [14:164]. On the other hand, it was also shown that, for smaller sizes MLE has smaller variances than those of window estimates. This is true even for $n = 40$ according to the computational results that Higgins and Tichenor presented.

Koutrouvelis suggests a different and simple estimation method utilizing the empirical characteristic function. The simplicity comes from the fact that, fitting the number of points t in (3) reduces the optimization for λ and ψ to the determination of asymptotically optimum quantiles for the linear parameter estimation of an exponential distribution using order statistics [19:206]. The estimators appeared to be asymptotically independent and normally distributed. Koutrouvelis stated that the estimators based on this method have high efficiencies and are superior to the BLUE [19:211]. Without comparing these estimates to the MLEs, he proposes this method as an alternative to MLEs.

The last estimation method covered here will be the MLE. Since MLEs became standard, every new method is compared to MLE. For the Cauchy case, this gains more importance, because MLEs for the Cauchy distribution cannot be expressed

in closed form. Therefore, numerical methods need to be used [11:404]. There has been questions on the convergence of the estimators due to the use of iterative method. Bai and Fu submitted a paper on the MLE for the location parameter of the Cauchy distribution [3]. They concluded that "Despite the general belief that the Cauchy distribution is an example of the failure of the maximum likelihood estimation, MLE of the location parameter converges to the true value exponentially at an optimal rate" [3:140]. Barnett on the other hand mentioned the possibility of multiple solutions due to the risk of finding local maxima instead of global maximum [4]. But Haas reported multiple solutions were never found in their study. And they concluded that the solution of the maximum likelihood equations will always be unique for distinct samples of size three or more [11:405]. Later Sours compared the MLEs with the minimum distance estimates and found that MLE gives the better, or smaller mean squared errors (MSEs) among the all minimum distance estimates [33:40].

Haas gives the likelihood function for the Cauchy sample of size n as [11:404]

$$L(X_1, X_2, X_3, ..., X_n) = \prod_{i=1}^{n} \left(\frac{1}{\pi\psi(1 + (\frac{X_i - \lambda}{\psi})^2)}\right) \tag{8}$$

taking the logarithm of (8)

$$Log(L) = -n(log(\pi)) - n(log(\psi)) - \sum_{i=1}^{n} log(1 + (\frac{X_i - \lambda}{\psi})^2) \tag{9}$$

Then taking the partial derivatives of (9) and setting them equal to 0 gives the following maximum likelihood equations

$$\sum_{i=1}^{n} \frac{\frac{(X_i - \lambda)}{\psi}}{1 + (\frac{X_i - \lambda}{\psi})^2} = 0 \tag{10}$$

$$\sum_{i=1}^{n} \frac{1}{1 + (\frac{X_i - \lambda}{\psi})^2} = \frac{1}{2}n \tag{11}$$

The Princeton study used an iterative method derived from (10) and (11) [2:2C3-17]. The iterative equations in which there is a need for initial values for both λ and ψ are shown below

$$\lambda_{k+1} = \frac{\sum_{i=1}^{n} \frac{X_i}{\psi^2+(X_i-\lambda_k)^2}}{\sum_{i=1}^{n} \frac{1}{\psi^2+(X_i-\lambda_k)^2}} \tag{12}$$

$$\sqrt{\psi_{k+1}} = \frac{n}{2\psi_k^{3/2} \sum_{i=1}^{n} \frac{1}{\psi^2+(X_i-\lambda_k)^2}} \tag{13}$$

For this iteration method, the initial value for λ is chosen as the sample median and assigned as λ_0. For the scale parameter ψ, the semiquantile distance is picked as initial value ψ_0. Semiquantile distance is obtained from (7) by assigning $p = 0.75$.

2.6 Applications

In 1970's, it has been realized that in the economic modeling some data are flatly inconsistent with the hypothesis of normality. The observed data had much weight in the extreme tails. Then the Cauchy distribution and the other stable distributions were assumed to give better fit to the data. It has been observed that this holds true for time series analysis, stock and commodity price changes, sales, employment or asset size measures of business firms and personal incomes [9:275].

Another application of the Cauchy distribution is closely related to the normal distribution. Suppose Y and V are normally distributed as $N(0,1)$. Then the variable Z which is the ratio of Y to Z has a Cauchy distribution [17:160].

Meyer explains a physical situation from which the Cauchy distribution may be obtained in the real world [22:276].

Consider we mounted a machine gun at a unit distance from a wall. Figure 2.2 shows the direction of the gun. Then the gun is rotated at a constant angular velocity, $\frac{d\theta}{dt} = \omega$, and is fired at a constant rate. A hit occurs for $\frac{-\pi}{2} \leq \theta \leq \frac{\pi}{2}$ where θ is uniformly distributed over the range $\frac{-\pi}{2} \leq \theta \leq \frac{\pi}{2}$. Then $f(\theta) = \frac{1}{\pi}$

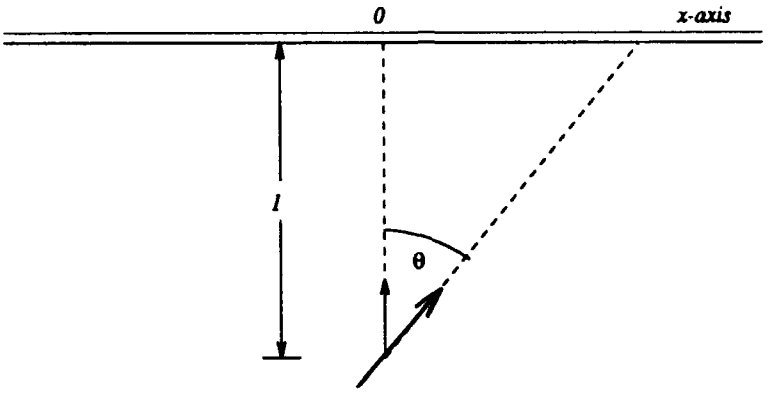

Figure 2.2 Geometric example of the Cauchy distribution

for the defined range. Since the distance from the wall is unity, $\tan(x) = \theta$ and $\theta = \arctan(x) = \theta(x)$.

The derivative of $\theta(x)$ is

$$\frac{d\theta}{dx} = \frac{1}{1+x^2}$$

The pdf of x is then computed as

$$q(x)\,dx = f(\theta(x))\left|\frac{d\theta}{dx}\right|\,dx = \frac{1}{\pi}\frac{1}{1+x^2}$$

which is exactly the standard Cauchy pdf as in (4).

Meyer also states that the Cauchy distribution arises in the theory of atomic and nuclear transitions [22:276]. Kotz gives some examples from the Brownian motion which tend to a Cauchy distribution [17:161].

III. Goodness-of-Fit Tests

3.1 Hypothesis Tests

Statistical analysis includes hypothesis tests prior to the analysis. In hypothesis testing, first a claim believed to be true is made. Then a random sample is drawn from the population and a decision is made for or against the hypothesis. This procedure includes following steps [21:128-129]:

1. A hypothesis to be tested and believed to be true is made. This hypothesis called ***null hypothesis*** and denoted as H_o.
2. The negative of the null hypothesis is set up and called ***alternative hypothesis*** (H_a).
3. A ***test statistic*** is chosen. The test statistic is "a function of the sample data on which the decision (reject H_o or do not reject) is to be based.
4. A rule which is related to the ***rejection region*** is established to make the decision. The rejection region specifies the values of the test statistic for which the null hypothesis is rejected. These cutoff values of the set statistics are called ***critical values***. Then the decision rule is
   - reject H_o, if the value of the test statistic computed from the sample is greater than the critical value
   - accept H_o, if the value of the test statistic is not in the rejection region

Hypothesis testing is based on the sample data. However, the sample cannot carry all the information about the population. Therefore there exists a possibility of making errors in decision making, which can occur in two types:

- *Type I error* occurs if H_o is rejected when it is actually true. This error is denoted as α.

- *Type II error* is made if H_o is accepted when actually H_a is true. Type II error is denoted as β [21:430].

The hypothesis testing is concerned minimizing these two types of errors. The maximum probabilities of making type I error have been given the labels of α, which is called *significance levels*. The hypothesis tests are done based on the α levels. The maximum probabilities of making type II error which is labeled as β is used in the determining the power of the test. $(1-\beta)$ which denotes the probability of rejecting H_o when H_a is true, gives the power of the hypothesis test.

3.2 Goodness-of-Fit Tests

Goodness-of-fit (GOF) tests are used to examine how well a sample of data fits to a hypothesized distribution. In fact, GOF tests are regular hypothesis testing in which the null hypothesis, H_o, is that the data comes from the hypothesized distribution $F(x)$. GOF tests can be separated into two subgroups as graphical and using test statistics. Following sections will explain the tests using test statistics.

3.2.1 Chi-squared (χ^2) Tests. The first test introduced by Pearson in 1900 is the *Chi-squared test*. The basic idea of the chi-squared tests is to reduce the general fitting test to a test based on comparison of observed cell counts with their expected values under the hypothesis to be tested [37:63]. Although the chi-squared tests are the most generally applicable tests, they are often less powerful than the other tests due to the decrease in information caused by the grouping of the data [40:113].

The general concept of the chi-squared test can be summarized as in the following paragraph.

Suppose we have a random sample $X_1, X_2, ..., X_n$ with the distribution $F(x)$. Pearson partitioned the range into n cells. O_i's are the observed number of X_js in the i^{th} cell. Then O_i has a binomial distribution and therefore, np gives the expected

value of O_i which is the number of X_js that should fall in the i^{th} cell theoretically. Pearson reasoned that the difference between the observed and the expected cell frequencies, $O_i - np_i$, expresses lack of fit of the data to $F(x)$. He suggested the chi-squared test statistic as the function of this difference.

$$\tilde{\chi}^2 = \sum_{i=1}^{k} \frac{(O_i - E_i)^2}{E_i}$$

is chi-squared distributed with the degrees of freedom $k - p - 1$ where p stands for the number of parameter estimated, k the number of cells and $E_i = np_i$ [24:64-65].

The test results with rejection if $\tilde{\chi}^2 > \chi^2_{k-p-1}$, where χ^2_{k-p-1} refers to the critical chi-squared value.

Another draw back of the chi-squared tests besides the low power is that it is subjective. Because the choice of the number of cells is arbitrary with the limitation of having at least 4 observations at each cell. Therefore, the result of the test is not unique and it may change with the choice of cell numbers. It is recommended to use samples of size greater than 25 for the χ^2 test [40:114].

3.2.2 EDF Tests. The second group of GOF test statistics are EDF statistics.

"Empirical distribution function (EDF) is a step function, calculated from the sample, which estimates the population distribution function" [37:97]. With Stephens' words "EDF statistics are measures of the discrepancy between the EDF and a given distribution function, and are used for testing the fit of the sample to the distribution ..." [37:97].

For a sample of size n which is $X_1, X_2, ..., X_n$ from the distribution of F(x), the EDF ($F_n(x)$) is defined as

$$F_n(x) = \frac{number\ of\ observations \leq x}{n}$$

For ordered statistics, EDF is specifically defined as

$$F_n(x) = 0, \quad x < X_{(1)}$$
$$F_n(x) = \frac{i}{n}, \quad X_{(i)} \leq x \leq X_{(i+1)}, \quad i = 1, ..., n-1$$
$$F_n(x) = 1, \quad X_{(n)} \leq x$$

The difference between CDF and EDF is shown at Figure 3.1.

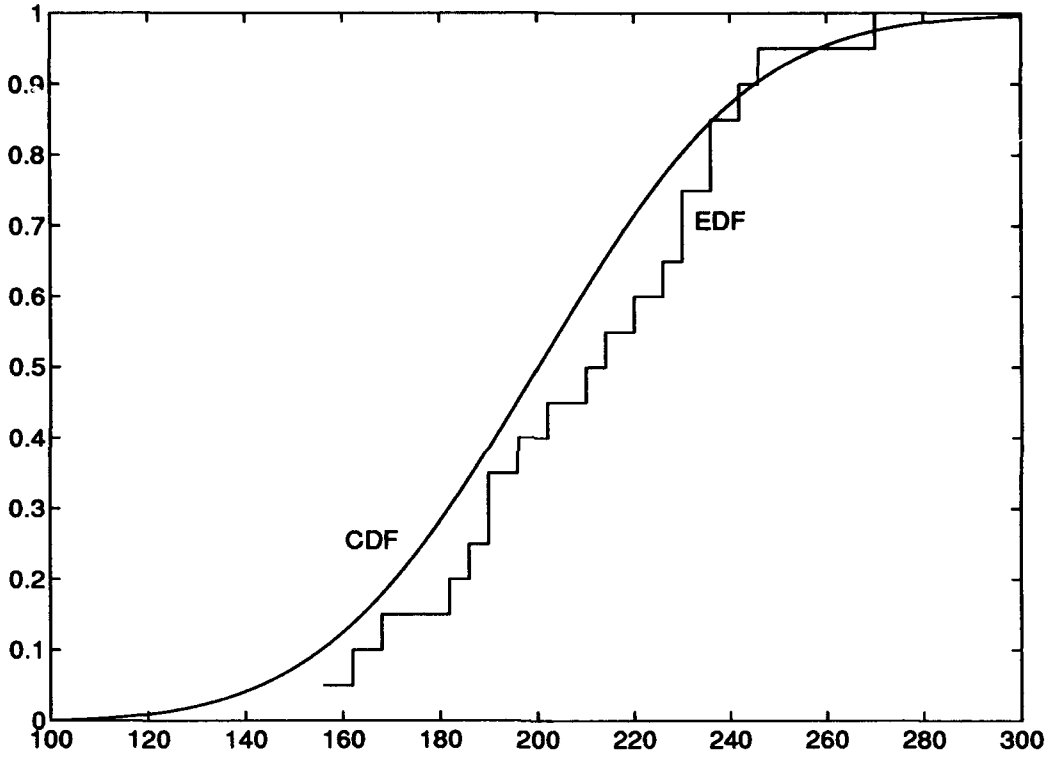

Figure 3.1 EDF and CDF

EDF statistics are separated into two major groups from which the most common EDF statistics are drawn. The first group is quadratic statistics which are also called the Cramer-von Mises family. These statistics are generated from

$$Q = n \int_{-\infty}^{\infty} \{F_n(x) - F(x)\}^2 \Psi(x) dF(x) \tag{14}$$

where $\Psi(x)$ is the suitable function which gives weights to the $\{F_n(x)-F(x)\}^2$. When $\Psi(x) = 1$, Cramer-von Misses statistics (CM) is obtained. $\Psi(x) = 1/\{F(x)(1 - F(x)\}$ gives the Anderson Darling statistic (A^2) [37:100].

The second group of statistics are called supremum statistics. The basic statistics of this kind is D^+ and D^- which are the largest vertical difference when $F_n(x)$ is greater than $F(x)$ and smaller than $F(x)$ respectively. They are defined as

$$D^+ = \max(F_n(x) - F(x))$$

$$D^- = \max(F(x) - F_n(x))$$

The most common EDF statistic, Kolmogorov-Smirnov statistic (KS) is a function of these two basic statistics. Precisely,

$$KS = \max(D^+, D^-)$$

The other EDF statistic, Kuiper statistic (V) is also a function of D^+ and D^-. It is defined as

$$V = D^+ + D^-$$

KS and V are the test statistics that are developed in this thesis.

Stephens gives the computational formulas for these EDF statistics along with the short discussion. According to his explanation, for any distribution of $F(x)$, $F(x_i)$ is uniformly distributed. Therefore, computing the EDF statistics comparing the EDF of $F(x_i)$ with the uniform distribution is the same as comparing the EDF of x_i with $F(x)$ [37:101]. This conclusion leads to the following practical computational formulas of the previously defined EDF statistics:

$$D^+ = \max(\frac{i}{n} - F(x_i)) \tag{15}$$

$$D^- = \max(F(x_i) - (\frac{i-1}{n})) \tag{16}$$

Kolmogorov-Smirnov and Kuiper statistics are computed from (15) and (16) as

$$KS = \max(D^+, D^-) \tag{17}$$

$$V = D^+ + D^- \tag{18}$$

The Cramer-von Mises and the Anderson-Darling statistics are modified from (14) and turn out to be

$$CM = \sum_{i=1}^{n}\{F(x_i) - \frac{2i-1}{2n}\}^2 + \frac{1}{12n} \tag{19}$$

$$A^2 = -n - \frac{1}{n}\sum_{i=1}^{n}(2i-1)[\ln F(x_i) + \ln(1 - F(x_{n+1-i}))]$$

The EDF tests can be used with small samples, unlike the chi-squared tests. One the other hand, the EDF tests could only be used when $F(x)$ was fully specified, that is, the parameters were known. Because with a fully specified CDF, the probability integral transformation converts CDF values to ordered values in the interval of $[0, 1]$ based on a uniform distribution. If the parameters of $F(x)$ were to be estimated, the CDF of EDF statistics would depend on the sample size and the value of the parameters. This prevented the widespread usage of the EDF statistics [35:731-732].

David and Johnson, in 1948, showed that if the parameters to be estimated from the sample are the invariant estimators of only location and the scale parameters, then the CDF of EDF statistics will depend on the functional form of $F(x)$, not on the estimated parameters [7]. This clarification made the modified GOF tests to be more widely used. The modified GOF tests are the GOF tests in which $F(x)$ is not specified and the parameters are estimated.

In the literature there are numbers of studies on the goodness-of-fit tests each of which uses different estimation techniques, different test statistics, different methods

in calculating critical values and is done for different distributions. Daniel prepared a bibliography on the GOF studies in 1980 [6]. The bibliography goes back to 1900 when Pearson first introduced the χ^2 test. Then it covers the all major studies till 1980. The most studied distributions appeared to be the normal and exponential distributions. There are various kinds of methods and tests studied along with the studies on the efficiencies of the tests and the asymptotic theories of the test statistics.

Besides those studies, there exist three important resources in the literature on the GOF. The first one is the *Goodness-of-Fit Techniques* written by Stephens and D'agostino [37]. They refer to numerous studies and present various kind of GOF tests giving examples on different distributions. The second book is *Smooth Goodness of Fit Tests* written by Rayner and Best [27]. The third resource is on the multivariate data analysis which is *Goodness-of-Fit Statistics For Discrete Multivariate Data* written by Read and Cressie [28].

The majority of these studies intended to develop a new technique or modify the ones already proposed to increase the power. While some studies are searching for new estimation technique for this reason, some are modifying the EDF statistics with different plotting positions.

Besides the standard GOF tests, a new technique, directional test, was proposed. The idea of the directional test also known as the reflected test has been motivated from Schuster's papers [31]-[32]. In the first paper Schuster derives a second sample from the original center. Then he uses the sum of the CDFs of the two samples and derives a new Kolmogorov-Smirnov kind statistic. In the second paper, he proposes a new method of parameter estimation using the same method of deriving the second sample. In short, he estimates the location parameter and then reflects the sample around the location parameter. Thus he gets the asymmetric of the original sample. This concept was modified by Ream and used in the GOF tests for normality. He basically derived the second sample as Schuster did. But instead

of treating the second sample itself, Ream combined the two samples and dealt with the new sample of doubled size. The reason for the reflection was to improve the power increasing the sample size. The results turn out as expected for the symmetric distributions. But "no improvement would be evident in powers generated against the non-symmetric distributions" [29:61].

Sequential tests, also called omnibus tests, are based on the idea that two different tests are run independently. The order of the tests is not important. But the test of running two independent tests has its own significance level and power. The significance level of the sequential test which is the combination of the *test*1 at α_1 and *test*2 at α_2 is

$$\alpha \leq \alpha_1 + \alpha_2 \tag{20}$$

Pearson, D'Agostino, and Bowmen showed that using both the skewness and the kurtosis tests for normality if $\alpha_1 = \alpha_2 \simeq \alpha^*$ then an approximation to the overall significance level is [37:390]

$$\alpha = 4(\alpha^* - (\alpha^*)^2)$$

This idea can be applied to EDF statistics using two of them at the same time. The new test would have a separate significance level and different power. This study will introduce three new sequential tests for the Cauchy distribution.

Stephens presented a report on the EDF tests for the Cauchy distribution. He derived the percentage points for the CM and A^2 and also U^2 (Watson statistic) [36]. Although the report focuses on these statistics from beginning to the end also the percentage points were found for KS and V statistics. The report concludes that the EDF statistics give higher power in the case of CM and V but no values from the power study is presented. Stephens uses a different method for the estimation reasoning that the MLEs are hard to work with. On the other hand, he states that the asymptotic theory is not applicable to these statistics, he doesn't mention how he calculated the percentage values.

The other GOF study for the Cauchy distribution was achieved by Ocasio in 1985 [26]. He derived the critical values for the CM, A^2 and KS statistics for the Cauchy distribution with unknown shape and location parameters. He used MLEs and bootstrap method with 5000 samples and also did a power analysis against various distributions. The study concluded that the KS test is the most powerful one among those three tests for the sample size n greater than 5.

The last study was done by Moore and Yen on the CM and A^2 tests [23]. They used MLEs with 5000 samples and also included the reflection technique for both of the tests. Moore and Yen present the critical values along with the power tables. The study results support the idea that the reflection improves the power against the symmetric distributions.

3.3 Monte Carlo Methods

Some systems are mathematically difficult systems, and hard to define in straight forward closed form equations. When an exact mathematical model can not be developed economically or when it becomes too complex to permit timely evaluation, such complex systems are usually analyzed using Monte Carlo Method. Law and Kelton define Monte Carlo simulation as "a scheme employing random numbers, that is, $U(0,1)$ random variates, which is used for solving certain stochastic or deterministic problems where the passage of time plays no substantive role" [5:113]. Even though it just says $U(0,1)$ random variates, usually different random variates are used but as explained in the latter sections they are all generated from $U(0,1)$ random variates.

The common usage of the Monte Carlo analysis is in the reliability analysis. The second area is the deterministic problems. Since it is a simulation process, it has very large application area. The only difference of it from the simulation is that it doesn't deal with time.

> Monte Carlo simulation is now widely used to solve certain problems in statistics that are not tractable. For example, it has been applied to estimate the critical values or the power of a new hypothesis test. Determining the critical values for the Kolmogorov-Smirnov test for normality ... is such an application. [5:114]

The statisticians have come up with asymptotic distributions of the EDF statistics. However, they are still difficult to estimate and work with. Therefore many of the goodness-of-fit studies employ Monte Carlo methods. Noree states that

> In general, a valid Monte Carlo significance level can be computed for any test statistic that is a function of data drawn from any specified population. The population does not have to have a familiar, well-behaved distribution studied by statisticians; the population can be entirely arbitrary. [25:49]

The Monte Carlo process usually involves the determination of the distribution of interest (mostly related to the element in the system), selection of the random sample from this distribution, combining of these samples to obtain the measure or information required. "The process of random selection and determination of the system effects are repeated a large number of times and, each repetition results in another different estimate of the system characteristic that is being measured" [18:3-1]. The accuracy and reliability of the Monte Carlo method are based on the law of large numbers which is stated as, ***as the sample size gets bigger, the difference between the sample mean and the population mean becomes smaller*** [1:176]. For a big enough sample size, the sample mean is equal to the population mean. However, ***big enough*** is a relative term. It has been shown that for the normal distribution, samples of $n \geq 30$ is enough to assume sample mean is equal to the population mean. But there doesn't exist any comment for the other distributions. However, most of the Monte Carlo studies use 5000 iterations. Thus, 5000 independent data are obtained and used as representative of the system.

The weakness of the Monte Carlo method is that the uncertainty of the raw data. But Gwinn states the opinion of Hammersley and Handscomb on this uncertainty

> Good experimentation tries to ensure that the sample shall be more rather than less representative ...[Monte Carlo results] can nevertheless serve a useful purpose if we can manage to make the uncertainty fairly negligible, that is to say to make it unlikely that the answers are wrong by very much. [10:2-14]

Then the uncertainty can be made negligible by increasing the number of observations or in other words number of replications.

The Monte Carlo study can be generalized for the purpose of this thesis as shown in Figure 3.2. Next sections will include different methods for these main steps of the Monte Carlo analysis.

3.4 Random Number Generation

Almost all simulation processes require random samples or deviates. In nature, there is no such a thing as a random number. But there exist various arithmetic procedures to generate random numbers. Since the procedures employ deterministic rules, they are called *pseudo-random numbers*, meaning supposedly random but not really. Ripley defines random numbers as "A sequence of pseudo-random numbers (U_i) is a deterministic sequence of numbers in (0,1) having the same relevant statistical properties as a sequence of random number" [30:15].

All random variates from different distributions are generated using uniform, $U(0,1)$, random numbers. Thus, the generation of the uniform random numbers gains the most importance and is the basics of random number generation. Therefore this section gives an introduction to major methods of generating $U(0,1)$ random numbers.

The earliest methods were so crude, and carried out by hand such as throwing dice, dealing out cards, casting lots or drawing numbered balls from an urn. Later,

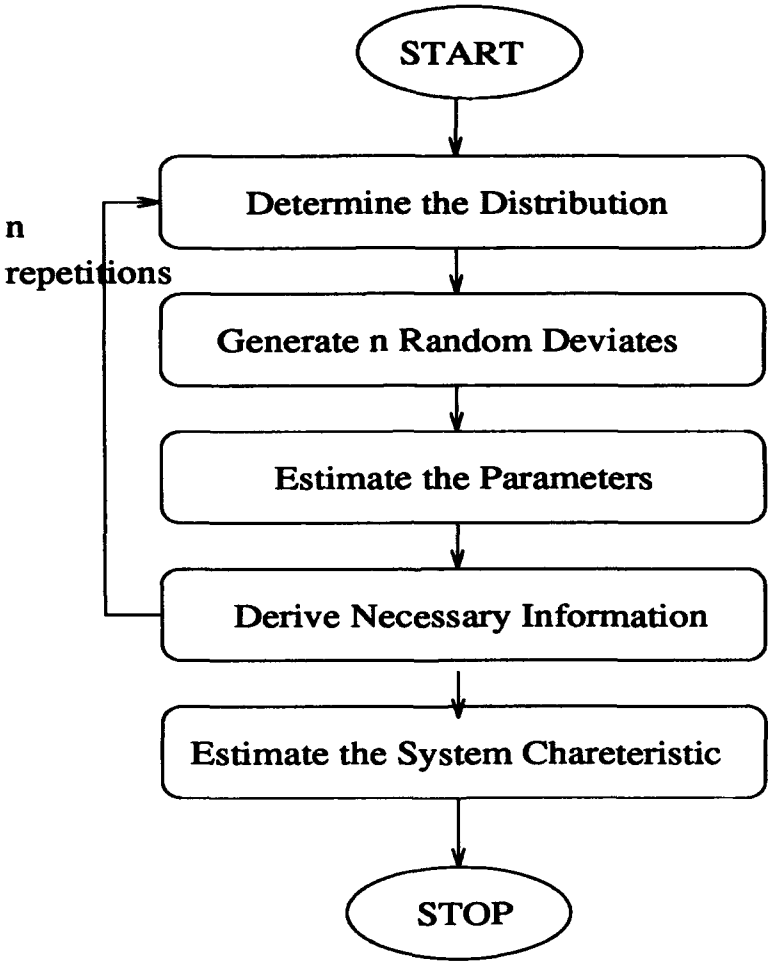

Figure 3.2 Monte Carlo Study

some electrical devices were developed just for generating random numbers. As the computer got widely used, numerical or arithmetical methods which are based on the computer operation system were generated. The first of this type was *mid-square* method proposed by von Neuman and Metropolis. But "One serious problem (among others) is that it has a strong tendency to degenerate fairly rapidly to zero, where it will stay forever" [20:422].

In 1951, Linear Congruential Generators (LCGs) were introduced by Lehner. The LCGs have the form of

$$Z_i = (aZ_{i-1} + c)(mod\ m)$$

where m, a, c, and Z_0 are nonnegative integers and $m > 0$, $m > a$, $m > c$, $Z_0 < m$.

LCGs have a looping behavior, that is, the same sequence of random numbers will repeat itself whenever $Z_i = Z_0$. This length of cycle is called *period* and when it is equal to m, it is called *full period*. But to make the sequence full period there are some other requirements as explained by Law and Kelton [20:426].

If $c > 0$ it is called *mixed* LCG. Mixed LCGs have some advantages the most important of which is that if $m = 2^b$ where b denotes the number of bits in a word on the computer it helps "... to avoid explicit division by m on most computers by taking the advantage of *integer overflow*" [20:427].

When $c = 0$, the generator is called *multiplicative* generator. Multiplicative LCGs have the advantage of not having the addition of c, but the disadvantage of not being able to have full period [20:429].

In general, LCGs are the most commonly used generators. However there exist several different generators such as *composite* and *Tausworthe* generators. But the facilities used in this study use LCGs. Therefore the other methods will not be explained. But the general information about the other generators can be found in Law and Kelton's book [20].

3.5 Random Variate Generation

There are many different techniques for generating random variates. The choice of the technique depends on the type of distribution from which the variate will be generated. The techniques can be classified into several general groups. The following sections will discuss these general groups.

3.5.1 Inverse Transform. Suppose the variable X has the CDF $F(x)$, then $F(x) = u$ has the inverse CDF denoted as $F(u)^{-1}$ where u is uniformly distributed. Therefore to generate random variate from the distribution function $F(x)$ the following algorithm is used :

1. Generate $U \sim U(0,1)$
2. Calculate X so that $X = F(U)^{-1}$

The inverse transform method can be applied to the continuous, discrete and the mixed distributions. But one disadvantage of this method is that there may not be a closed form formula of the CDF as in the normal and gamma distributions. On the other hand, for some specific distributions the method may not be the fastest method [20:472].

Despite these drawbacks, one important advantage is that the method can facilitate variance-reduction techniques such as antithetic variates. The second advantage is that it is easy to generate from truncated distributions. The final advantage of the inverse-transform method is that generating order statistics is very easy with this method.

3.5.2 Composition Method. This technique is used when it is possible to explain the CDF of the distribution from which the variate will be generated as a convex combination of the other CDF's such as

$$F(x) = \sum_{j=1}^{k} p_j F_j x$$

where

$$\sum_{j=1}^{k} p_j = 1 \text{ and } p_j > 0$$

which is the convexity constraint. The algorithm is given as

1. Generate a random integer $J \epsilon \{1, 2, ..., k\}$ such that

$$P(J = j) \text{ for } j = 1, 2, ..., k$$

2. Generate random variate X from the distribution with CDF F_J. [20:474]

The composition method is faster, in some cases, than the inverse-transform method.

3.5.3 Acceptance-Rejection Method. This method is not a direct method as the other methods and can be useful when the direct methods fail or are inefficient.

The idea of the acceptance-rejection method depends on the idea that a function $t(x)$ can be defined such that $t(x)$ majorizes the density $f(x)$. This requires $t(x) \geq f(x)$ for all x.

$$c = \int_{-\infty}^{\infty} t(x)dx \geq \int_{-\infty}^{\infty} f(x)dx = 1$$

Dividing $t(x)$ by c gives the density function $r(x) = \frac{t(x)}{c}$. Thus since CDF of $r(x)$ will be uniformly distributed, it is possible to generate variate from $r(x)$. Then the algorithm is given by

1. Generate Y from the majorizing PDF $r(x)$.
2. Generate $U \sim U(0, 1)$ independent of Y.
3. If $U \leq f(x)/t(Y)$, then accept $X = Y$ as the variate from $f(x)$. Otherwise reject the value and go back to step 1. [20:478]

The important step in the acceptance-rejection method is to choose $t(x)$ properly. The majorizing $t(x)$ should be picked so that the generation from $r(x)$ would be easy, and c is small, that is, $t(x)$ should fit closely above $f(x)$. The first requirement is to increase the speed while the second is to increase the accuracy [20:479]

The techniques are modified to generate from specific distributions. But these techniques are the general forms of the random variate generation.

3.6 Bootstrap Method And Plotting Positions

The plotting positions methods is the most common method to derive the critical values for a GOF test. It depends on the bootstrap method. The bootstrap methods were pioneered by Efron for estimating confidence intervals. But they can be modified to estimate the significance levels. There exist many bootstrap methods which use different modifications. The basics of this technique are explained below.

Suppose x is a random sample and $t(x)$ is the value of test statistic of hypothetical x. Since x is a random variable, $t(x)$ is a random variable too, with its own probability function. Then $P(t(x) \geq h)$ gives the sampling distribution of $t(x)$.

> Now let x_0 be the real random sample from the real population; $t(x_0)$ is the value of the test statistic for that real sample. A hypothesis test consists of calculating how unusual $t(x_0)$ is relative to the sampling distribution of $t(x)$. That is, significance of the test statistic ideally is $prob(t(x) \geq t(x_0))$ and the rule for rejecting the null hypothesis is :
>
> $$\text{Reject if } prob(t(x) \geq t(x_0)) \leq \alpha$$
>
> The problem in assessing a significance level thus reduces to estimating the sampling distribution of the test statistic under the null hypothesis, i.e. the probability distribution of $t(x)$ ... The sampling distribution is estimated by drawing simulated random samples from the null hypothesis population. The significance level is essentially the proportion of simulated samples for which the value of the test statistic was at least as large as for the original sample. [25:64]

The procedure explained above is an application of the Monte Carlo to draw random sample. "In fact, given a sample from a population, the nonparametric maximum likelihood estimate of the population distribution is the sample itself" [25:65]. Therefore, procedures for deriving the critical levels can be applied by sampling with replacement from the sample. Then plotting position technique is employed to derive the critical values. It has been shown that this technique is more precise than that to select the order statistic which, as a percentage of the total statistics, matches the percentile level.

Plotting position method is accomplished by approximating a piecewise linear function for the discrete order statistics. Then, it would be possible to interpolate between the discrete values of the statistics and get more accurate critical values. The interpolation is done plotting the order statistics against a plotting position which represents the order statistics on a 0 to 1 scale. The method of the interpolation is explained in the next chapter.

Many different plotting positions have been stated so far. Some of them have been used in different goodness of fit studies. The most famous one is called the *mean plotting position* and computed by $(i-0.5)/n$ where i is the rank of the order statistic and n is the sample size. Some of the other plotting positions are the median rank $(i-0.3)/(n-0.4)$, mode $(i-1)/(n-1)$ plotting positions. Different plotting position methods arise from the need of plotting ordered data against the CDF value. The CDF is a step function that jumps from $(i-1)/n$ to i/n at the ith order statistic of the sample. If $(i-1)/n$ is used as plotting positions then the smallest order statistic can not be plotted, while in the case of i/n the largest statistic is not possible to be plotted [12:1615].

There exist many studies on the plotting positions. Among those, Harter [12] published an extensive analysis of the different plotting positions proposed. The studies meet at the same objective which is to look for plotting positions that produce minimum variance unbiased estimates or minimum mean square deviation

of a biased estimate. Harter concluded that the median plotting position yields median unbiased estimates and "One may wish to avoid the difficulties associated with unbiased estimates by obtaining median unbiased estimates instead" [12:1625].

For the sample size smaller than 20, different plotting positions may give better results. But for the sample sizes over 20, the difference between the various plotting positions are insignificant.

3.7 Parameter Estimation

Any kind of statistical analysis based on a sample improves its accuracy and efficiency by first employing the best estimation method. The Monte Carlo study is no exception to this rule, especially when used in goodness-of-fit tests. Chapter 2 discussed different estimation methods proposed for the Cauchy distribution. Among those, the MLEs have been selected as the most appropriate estimators for this study.

One important reason for this is that, different studies concluded that MLEs have smaller variance or MSE than most of the other estimators of the Cauchy distribution. Besides, it has been proved that if there exists a sufficient estimator of a parameter, the MLE is definitely based on this sufficient statistic. Also, "maximum-likelihood estimators posses certain desirable large-sample properties" [39:345].

The most important property of MLEs for this study is that they are invariant. That is, If $\tilde{\theta}$ is the MLE of θ and $h(\theta)$ is an inverse function, then $h(\tilde{\theta})$ is the MLE of $h(\theta)$. By inverse function it is meant that there exists one-to-one relationship between values of θ and the corresponding values of $h(\theta)$ [39:349]. Thus, empirical distribution functions and the test statistics used in the study become the MLEs of the real values with the desired properties.

IV. Methodology

4.1 Overview

The distribution of the EDF statistics have been studied for years. But, statisticians couldn't come up with nice, easy-to-apply formulations. As mentioned before, asymptotic distribution of the Kuiper statistic has been studied too. But, it is a general agreement that any closed form of the distribution functions of EDF statistics is hard to deal with. As a result of this common belief, the Monte Carlo analysis was referred to derive information about the EDF statistics.

This thesis examines three types of goodness-of-fit tests. The first one is the ***standard test.*** The standard test was applied to both the Kolmogorov-Smirnov (KS) and the Kuiper (V) test statistics, and therefore the critical values were computed for them. The second type is the ***reflected,*** or ***directional test.*** This method was used again for both KS and V statistics and the critical values were generated. The third type of goodness-of-fit tests in the scope of this theses is the ***sequential test.*** This type combines two different tests. The sequential test was applied to three different combinations. The pairs are standard CM and standard Kuiper, reflected CM and standard Kuiper, standard KS and standard Kuiper. Even though the critical values for both cases of CM test for the Cauchy distribution were generated by Moore and Dr. Yen, they were regenerated using the same parameters and the methods as in the other tests. The Cauchy samples used in all the critical value computation were arbitrarily picked from $C(0, 10)$. After the critical values were computed for all of the tests, some power analyses were done using different alternative distributions.

All the codes for either critical value computations or the power studies were written in FORTRAN 77. To reduce the running time, IMSL STAT/LIBRARY subroutines were widely used [16]. All the codes were run on Sparc station 2 machines.

For the reasons mentioned before, MLEs were selected as the estimators used in this thesis. The computer code for the MLEs is a modified version of the FORTRAN

code CMLE used in the Princeton study [2]. This subroutine basically uses the equations (12) and (13) and solves them iteratively. Sours showed that 100 iterations is enough for convergence [33]. The convergence is determined within $\epsilon = 0.001$ for the location and $\epsilon = 0.05$ for the scale parameter. But the way of computing the median was coded just for the even sample sizes in that study. To improve the accuracy, the code was modified in this research and added another part for the odd sample sizes. On the other hand, Princeton study used the modified semi-quantile as in (7) for the initial estimate of scale parameter. In this study, since the true value of ψ was known as 10, it has been used as the initial estimate with the idea that it might increase the accuracy and reduce the computational time.

The previous goodness-of-fit studies using Monte Carlo method implemented, in general, 5000 independent values of test statistics. Since the sample size is a lot bigger compared to 20, any one of the plotting positions is justified. For this thesis, to get more accurate results, 50,000 iterations were used and 50,000 independent values of each test statistic have been generated. Therefore, it is intuitive that any kind of plotting position method could have been good to find the critical values. But as a choice, the median rank plotting position method has been selected for the purpose of this thesis.

The following sections will introduce the methods in detail for each type of the tests and the power studies.

4.2 Critical Values

4.2.1 Standard Test. The Monte Carlo procedure as explained earlier has been modified to generate critical values. The detailed flow chart of the generation process is shown on the Figure 4.1.

This thesis includes three different test types namely standard, reflected, and sequential. The standard and the reflected tests use the same procedure to generate

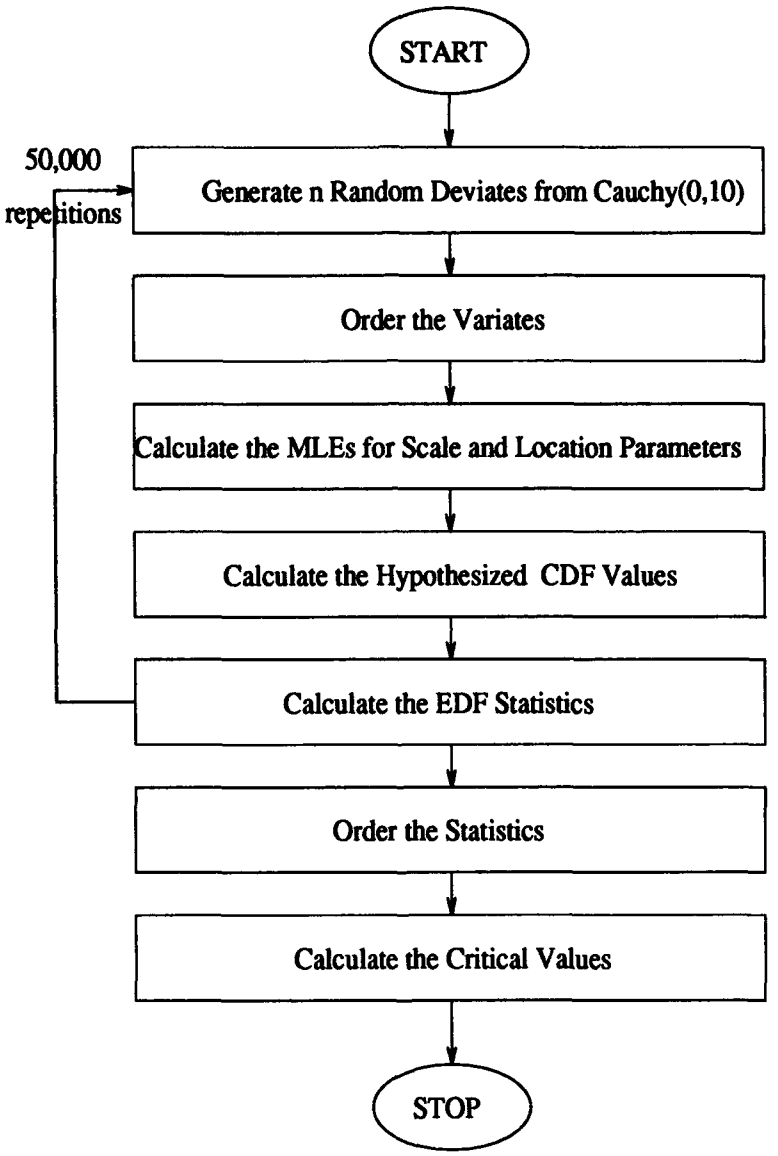

Figure 4.1 Flow Chart of Critical Value Generation For Standard Tests

critical values except for reflection. So this procedure will be explained here alone and then the reflection part will be discussed.

1. *Step 1 : Random deviate generation.* For each run of the Monte Carlo study a specified size of Cauchy sample is needed. This has been accomplished by using the IMSL subroutine RNCHY. This subroutine generates a sample from the Cauchy distribution with $\lambda = 0$ and $\psi = 1$ using the inverse transformation method as explained earlier. To produce a sample with different λ and ψ value, the deviates are multiplied by the new ψ and λ is added [16:997]. This thesis uses samples from $C(0, 10)$. So, each deviate was just multiplied by 10 after the generation.

2. *Step 2 : Parameter estimation.* As mentioned earlier CMLE subroutine of Princeton study was used to estimate the location and the scale parameters [2]. This subroutine requires the sample to be ordered first. Therefore, after the sample was generated the deviates were sorted in ascending order and then the CMLE calculated the MLEs.

3. *Step 3 : Calculate the CDF values.* This was done by substituting the computed MLEs in the CDF (2). Then the hypothesized CDF value for the each deviate was computed.

4. *Step 4 : Compute the test statistics.* The code to compute the KS test statistics was modified from Sours code [33:68-69]. KS was found using the equation (17) as the $max(D^+, D^-)$. Therefore, first D^+ and D^- values were computed as in (15) and (16) respectively. Finally the max of these two maximums was picked as the KS test statistic. The Kuiper test statistics (V) were computed by adding the already computed D^+ and D^- together.

5. *Step 5 :* Repeat the steps (1-5) 50,000 times to generate 50,000 independent test statistics.

6. *Step 6 : Order the statistics.* To assign the plotting positions to the test statistics, the statistics must be in ascending order. Therefore, they were ordered using a simple code.

7. *Step 7: Determine the critical values.* This technique depends on the bootstrap method. This method is accomplished by approximating a piecewise linear function for the discrete order statistics. Then, it would be possible to interpolate between the discrete values of the statistics and get more accurate critical values. "The interpolation is done plotting the order statistics against a plotting position which represents the order statistics on a zero to one scale" [26:24]. The plotting positions used in this thesis are the median rank plotting positions which is computed as $(i - 0.3)/(n - 0.4)$.

   The basic idea in this process is that the critical value at a certain α level is the $(1 - \alpha)$th percentile. So, to find the percentile corresponding to a certain α level, the greatest plotting position less than that percentile is found. Using this value and next to that, an interpolation could be done. For instance, for $\alpha = 0.10$ the greatest percentile which could be computed using $n = 50,000$ and the median plotting positions is found at the 45,000th order statistics which is 89.99868th percentile, and the 45,001th order statistic would give the 90.00068th percentile. Using an interpolation, a simple linear approximation can be done between these two points. And approximate value corresponding to $\alpha = 0.10$ or 90^{th} percentile can be computed. Next paragraph will explain how this interpolation could be accomplished.

   Any straight line can be expressed in the form of

$$y = mx + b \tag{21}$$

where m is the slope and b is the intercept. Then using the general interpolation formula,

$$m = \frac{y_{i+1} - y_i}{x_{i+1} - x_i}$$

$$b = y_i - mx_i$$

In calculation of the critical values, percentiles or in other words $(1 - \alpha)$ are dependent y variables, and the critical values are the values of the independent x variables. Modifying the general formula (21), the critical values are found by

$$\textit{critical value} = \frac{(1 - \alpha) - b}{m}$$

The critical values for the standard and the reflected tests were found using this method. For the ease of the computer code, if the consecutive points were identical, one of them was multiplied by 1.00001 and the method was implemented. The reason for this procedure is that in case of identical consecutive X points, computed m would be infinite. Therefore, performing the multiplication the problem could be prevented.

For the standard and the modified tests, critical values were computed for the significance levels of $\alpha = 0.01, 0.05, 0.10, 0.15, 0.20$ and for each $n = 5(5), 50$ sizes. However, since to conduct a precise sequential test and find the α levels for it, all critical values at least for $\alpha = 0.01$ to $\alpha = 0.20$ are needed. Therefore the codes were modified and the critical values for $\alpha = 0.01$ to $\alpha = 0.99$ were computed.

In some studies, using extrapolation y_0 and y_{n+1} were computed. But, because of the very large number of replications, these order statistics carry the information which is beyond the scope of this thesis. For example the first order statistic gives the 1.399988810^{-5} percentage point which nobody would need this much detailed information. Since the linear approximation between y_1 and the y_0 would give information for smaller percentage points, there is no need to include y_0 in this study,

neither y_{s0001} because of the same reason. Therefore, for the ease of computer codes they were not computed.

4.2.2 Reflected Test. The only difference between standard and the reflected tests occurs after the second step. Figure 4.2 shows the flow-chart of the critical value generation for the reflected tests. After the MLEs are estimated using the original sample, in reflected test, each deviate is reflected around $\tilde{\lambda}$, the MLE of the location parameter. First, the deviate is subtracted from the $\tilde{\lambda}$ and then the difference is added to the $\tilde{\lambda}$. For example, if the $\tilde{\lambda}$ of the sample is 1.24 and the deviate is 65.83, the difference is -64.59. Then -64.59 is added to the $\tilde{\lambda}$ to get the reflected value of -63.35. For the deviate of -93.75 with the same $\tilde{\lambda}$, the reflected value is 96.23. After the reflection, the sample size used in computing the CDF and the test statistics gets doubled, but the rest of the procedure remains the same.

4.2.3 Sequential Test. The method used for the sequential test is different than the other two types. The critical values for the sequential tests are computed in a similar way with the power study described in the next section. Since there hasn't been any computer code published in the literature, it will be useful to explain the procedure for others' judgment and for future use.

The sequential test uses two different independent tests sequentially and generates its own significance level. The procedure has been described in Figure 4.3 as a flow-chart. The first five steps of the procedure is the same as the critical value computation for the standard test. The difference starts after the test statistics are obtained. The two different test statistics are compared to the critical values at specific α levels. This procedure is done for each of the 50,000 samples. The number of the samples passing each test at those specific α levels is counted. The ratio of the number of accepted samples to 50,000 gives the percentage point. Then, subtracting that value from one would give the alpha level. To make the understanding easy, let's assume we keep track of the *test1* at $\alpha = 0.05$ and *test2* at $\alpha = 0.10$. If a

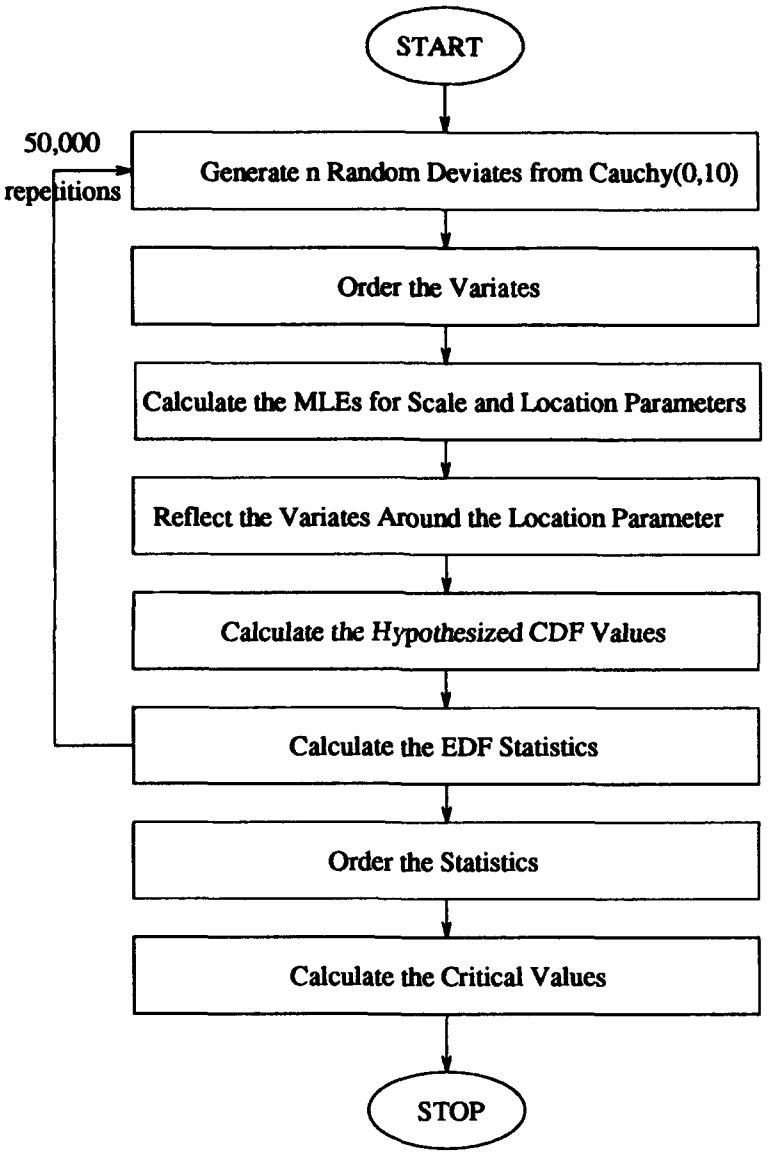

Figure 4.2 Flow Chart of Critical Value Generation For Reflected Tests

sample passes both tests at given levels, *count* is increased by one. This procedure is repeated for each of the 50,000 samples. Then the significance level is calculated as

$$\alpha = 1 - \frac{\#\ of\ accepted\ samples\ (count)}{50,000}$$

To have more precise significance levels for the sequential test out of two different independent tests, the individual tests have to be applied at wide range of α levels. For this reason the critical values for the standard and the reflected KS and V tests were generated at $\alpha = 0.01$ to $\alpha = 0.99$ by increment 0.01. Since one sequential test in this thesis includes reflected CM and V we had to regenerate the critical values for the CM for both the reflected and the standard case. The median plotting position method and 50,000 repetition were applied to this study, too.

The computer code for the sequential test is harder than the other tests. Because, for each α level of one test, the other test has to be examined at each α levels from $\alpha = 0.01$ to $\alpha = 0.99$. But, since α levels greater than 0.20 are not frequently used in hypothesis testing, we include only $\alpha = 0.01$ to $\alpha = 0.20$ in this research. On the other hand, to reduce the amount of the calculations in the code and therefore the running time, I have developed a matrix-kind data structure to compute α levels. The idea which this method was based on is that if a sample passes the test at a specific α level, then it will, for sure, pass the test at α levels smaller than that particular level. Because, as the α gets smaller, the critical value, however, gets bigger. On the other hand, since the sample passes the test if and only if the test statistic computed is smaller than or equal to the critical value at that α level, it already satisfies to pass the test at smaller α levels.

Therefore, 100 times the highest level at which a sample can pass the *test1* is attained as I of that sample. And J is attained, in the same manner, for the level of the second test. The reason of multiplying by 100 is just to get integer numbers which will serve as the index of the matrix defined below. After attaining I and

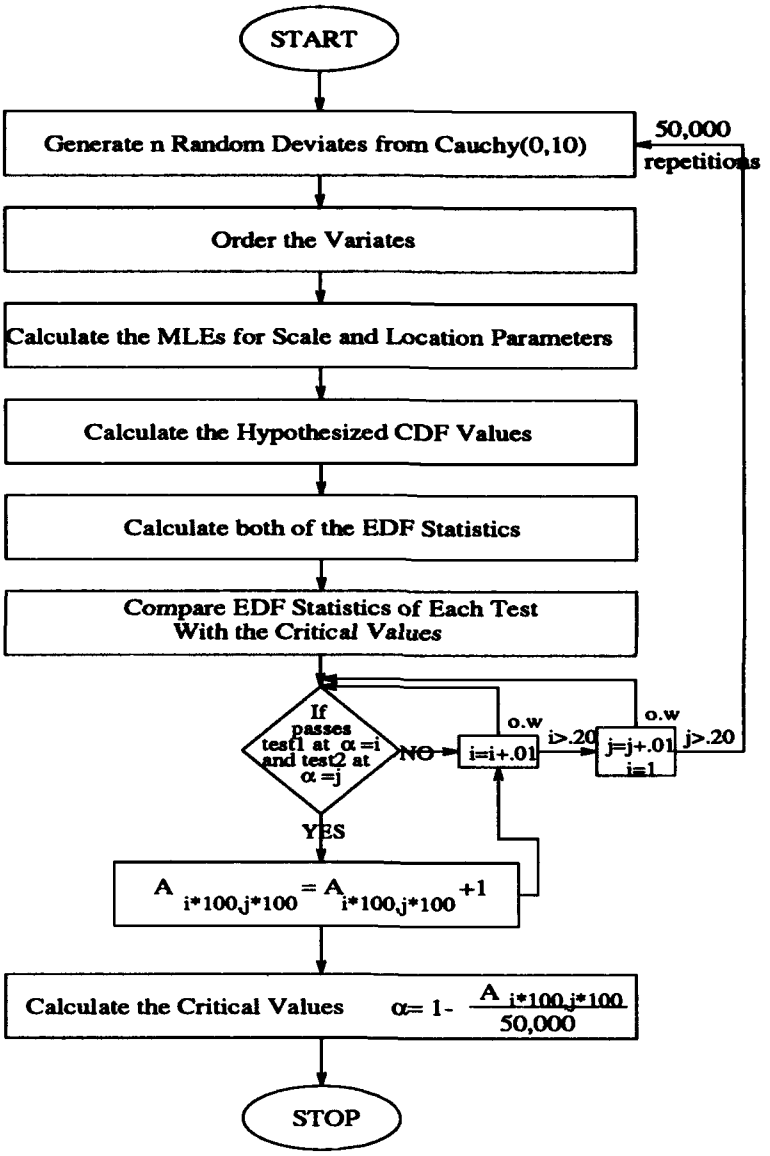

Figure 4.3 Flow Chart of Significance Level Generation For Sequential Tests

J to the sample, all (i,j) elements of the matrix are added 1, where $i = 1,...,I$ and $j = 1,...,J$. This is done for each of the 50,000 samples, and at the end, the (i,j) elements of the matrix will give the total accepted numbers of the samples at $\alpha = i$ level of the *test1* and $\alpha = j$ level of the *test2*. After this, it is easy to find the significance level of the sequential test for that particular combination. Then the α level of the sequential test for the combination of *test1* at $\alpha = i$ and *test2* at $\alpha = j$ is found as

$$\alpha_{sequential\ test} = 1 - \frac{(i,j)}{50,000}$$

where (i,j) represents the $(i,j)^{th}$ element of the matrix created as an output. The codes were written so that the rows would represent the α levels of the Kuiper test, and the columns would represent the other test corresponding to the pairs mentioned before.

4.3 Power Study

4.3.1 Power of the Standard Tests. After the critical values are determined, one other important concept is to check the power of the test against the alternative distributions. The significance levels give the probability of rejecting the null hypothesis when it is true. One would like the reduce the probability of rejecting H_o when in reality it is true. Also, one would like to increase the probability of rejecting the H_o when in reality H_a is true. The latter gives the power of the test. The power indicates how good the test is against specific alternative distributions. Therefore the power of these tests were examined against following alternative distributions:

1. Cauchy distribution $C(0,10)$
2. Normal distribution $N(0,10)$
3. Exponential distribution
4. Beta distribution $B(3,3)$
5. Gamma distribution with $shape = 2$

6. Weibull distribution with *shape* = 3.5

7. t-family with degrees of freedom of $1, 2, 5, 10, 15, 20$.

Figure 4.4 shows the detailed flow-chart of the power study which is also a Monte Carlo analysis. Basic steps (1-5) are the same with those of critical value computation. After obtaining the test statistics, they are compared with the critical values corresponding to the α level of interest. The ratio of the total number of the rejected samples to the total number of samples (50,000) at a certain α level gives the power of the test against that alternative distribution at that α level. For the power study, again 50,000 independent samples were used for consistency. And the power analysis has been accomplished for the α levels of $0.01, 0.05, 0.10, 0.15, 0.20$ and sample sizes $n = 5(5), 50$. The steps are explained below.

1. *Step : Random deviate generation.* IMSL library has very rich number of random generators. For the alternative distributions used in this thesis, samples were generated using the IMSL subroutines.

   The alternative Cauchy samples were generated with the RNCHY as before. But different seed was used to have independent samples. Thus, the real power of the test could be checked along with the accuracy of the computer code. Except for the alternative Cauchy, the same seed was used for all the other alternative distributions to get more precise comparison. For the normal deviates, subroutine RNNOR was used and $N(0, 1)$ deviates were generated using inverse CDF method [16:1017]. Then the deviates were added with 10 to get $N(0, 10)$. The RNEXP subroutine was used to generate exponential deviates with the antithetic inverse CDF technique [16:999]. Beta deviates were generated using the subroutine RNBET. The algorithm used by RNBET depends on the values of the parameters p and q. "Except for trivial cases of $p = 1$ or $q = 1$, in which the inverse CDF is used, all the methods use acceptance/rejection" [16:993]. $p = 3$ and $q = 3$ were picked for the power study against the Beta distribu-

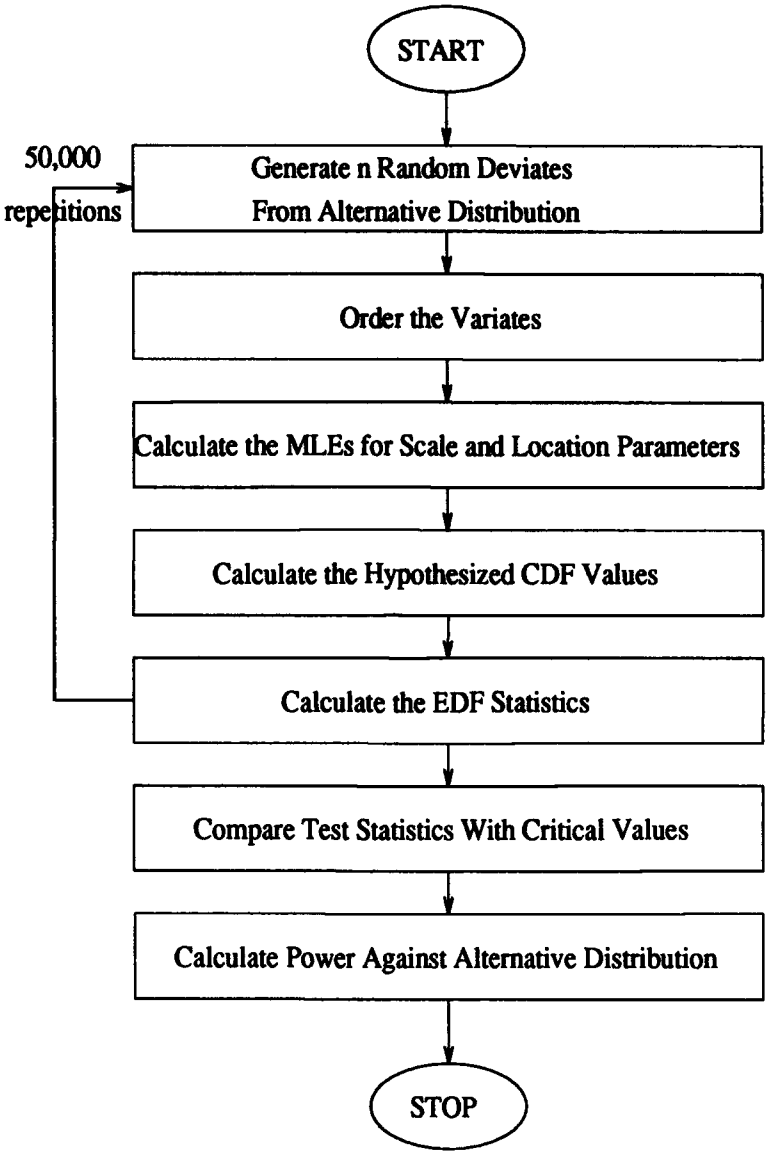

Figure 4.4 Flow Chart of Power Study For Standard Tests

tion. The Gamma deviates were generated using RNGAM which uses different algorithms. For instance, for shape parameter of 0.5 the squared and halved normal deviates, for *shape* = 1.0 exponential deviates are used [16:1003]. For this study shape was picked as 2. For the Weibull deviates, RNWIB was used with antithetic inverse CDF technique [16:1025]. IMSL doesn't have any subroutine to generate t deviates. However, if Y has Standard Normal distribution ($N(0,1)$) and Z has a Chi-squared distribution with v degrees of freedom (χ^2_v) then $X = Y/\sqrt{Z/v}$ is t-distributed with v degrees of freedom [5:164]. Since, IMSL has RNNOR and RNCHI which generate the standard normal and Chi-squared deviates respectively, this algorithm were applied. First, the normal deviates were generated and then the Chi-squared deviates were generated. Then the ratio of the normal deviates to the square root of Chi-squared deviates over the degrees of freedom was taken as a t-deviate.

2. *Step 2-5 :* The same methods used in critical value computation was used.
3. *Step 6 :* The test statistics are compared with the critical values at certain α levels of corresponding sample size. The power is determined by the following equation

$$power = \frac{\#\ of\ rejected\ samples}{50,000}$$

4.3.2 Power of the Reflected Tests. As in the critical value computation, the only difference between the standard and the reflected tests is that the sample is reflected around the location parameter, $\tilde{\lambda}$, after the estimation. Then the new doubled size sample is manipulated as explained above. Figure 4.5 shows the procedure as a chart.

4.3.3 Power of the Sequential Tests. The power analysis of the sequential tests uses exactly the same algorithm as of the significance level computation as explained in Section 4.2.3. The only difference is that, instead of generating only the Cauchy variates, we generate the other alternative distributions. The flow chart of

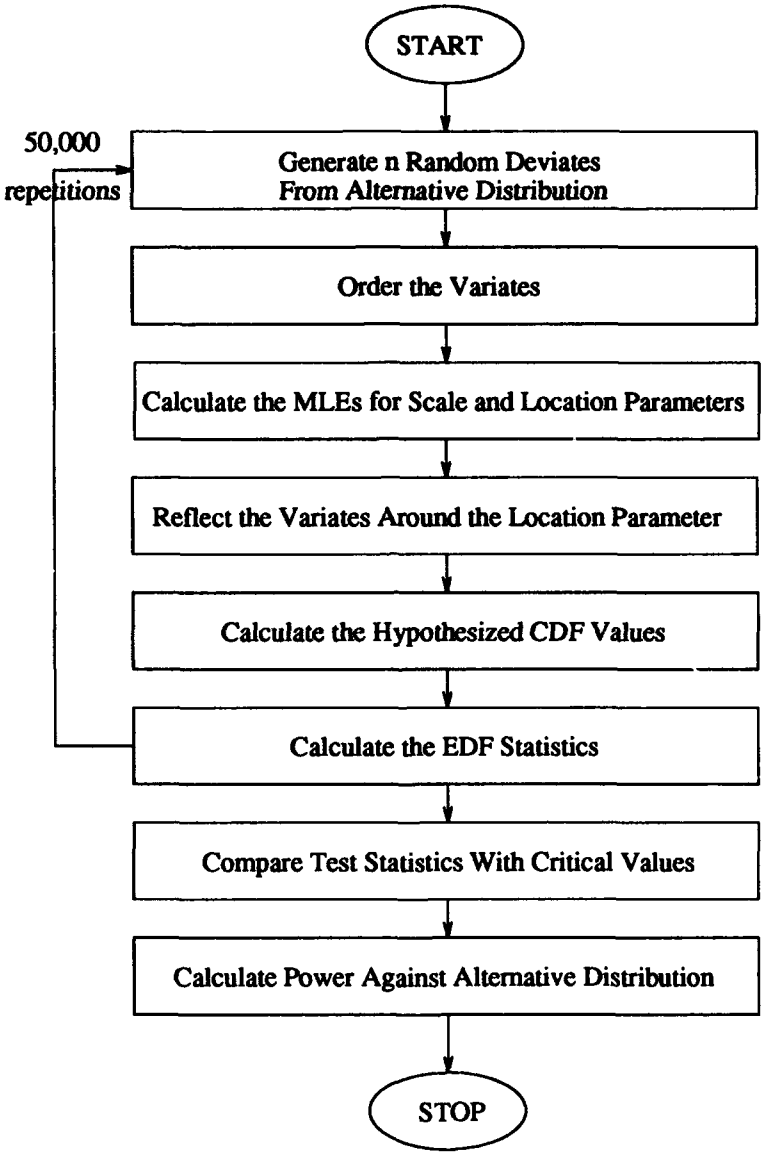

Figure 4.5 Flow Chart of Power Study For Reflected Tests

the power study for the sequential tests is shown on Figure 4.6. The power studies for the sequential tests have been accomplished against all the alternatives mentioned in Section 4.3.1 but the t-family. Again the samples were examined at each α level of the both of the tests and results were derived again in the same matrix form. Then, the ratio of the total number of accepted samples to 50,000 were subtracted from one to obtain the power of the sequential test at that α level corresponding to that combination.

The conclusions about the tests will be derived depending on the results of the power studies and will be presented in the next two chapters.

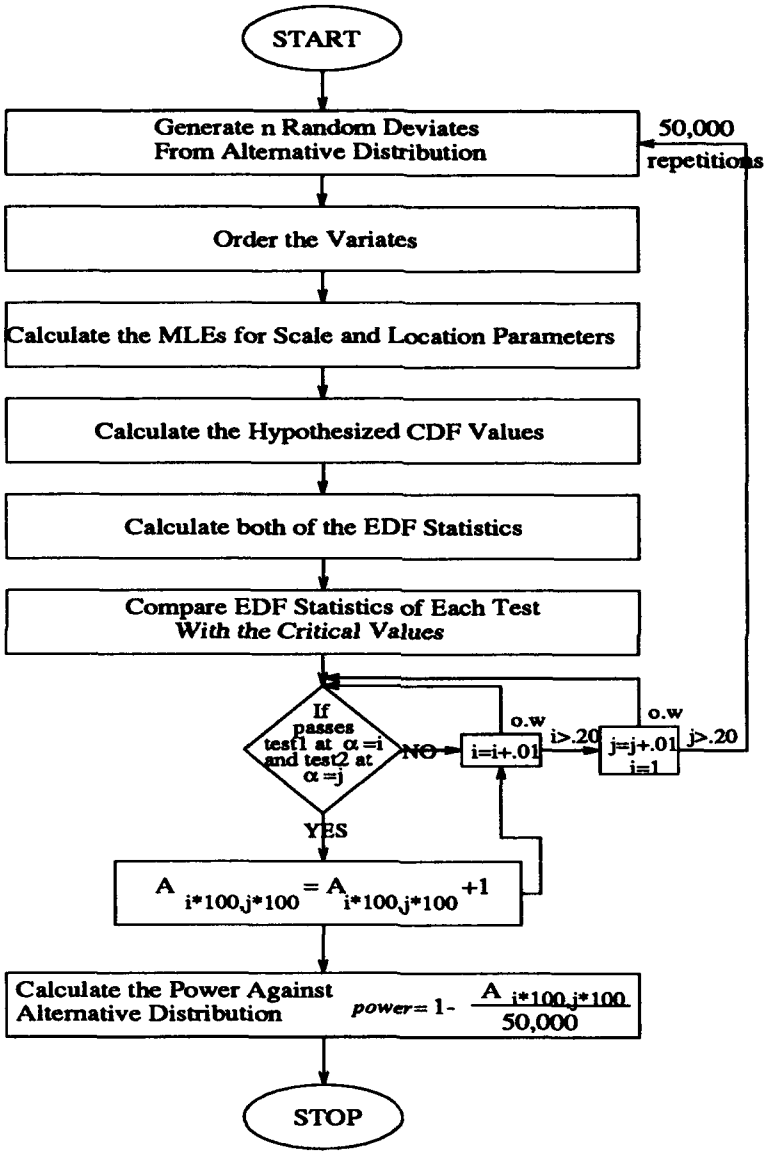

Figure 4.6 Flow Chart of Power Study For Sequential Tests

V. Results

This chapter includes the critical value tables and the power study tables as outlined in the previous chapter. For each test, critical values were generated for the sample sizes $n = 5(5)50$.

Any one who wants to check the data in hand whether it comes from the Cauchy family can easily use the critical values generated as a result of this research. Basic steps of this procedure includes the following :

1. Calculate the MLEs from the data using iterative method.
2. Using these MLEs calculate the hypothesized distribution function.
3. Determine which test you will apply and then calculate the corresponding test statistics using equation (17), (18) or (19).
4. Choose the appropriate table corresponding to the test picked and the size of the sample.
5. Find the critical value corresponding to the α level across the top row.
6. Compare the test statistic with the critical value :
    - If it is smaller than the critical value then you fail to reject the hypothesized distribution
    - If it is greater than the critical value then reject the hypothesized distribution, with an error level of α.

If at step 3, any one of the reflected tests is picked, then the sample has to be reflected around the MLE of the location parameter. After that, the procedure remains the same accept for with the doubled sample size.

For the sequential tests, after computing the test statistics, refer to the appropriate table and determine the α level of the test. Then find the corresponding α

levels of the individual tests from across the top row and the far left column. Then apply those individual tests separately as explained above. If the data passes both of the tests at those levels then we accept the hypothesized distribution. If data fails in either one, then we reject the hypothesis that the data comes from the Cauchy family.

To determine which test is appropriate for the purpose, power study tables stand as a key.

The following sections will present the tables of the critical values and the powers with the necessary information.

5.1 Critical Values

The critical values for the standard tests were generated for $n = 5(5), 50$ and $\alpha = 0.01, 0.05, 0.10, 0.15, 0.20$. These are shown on the Tables 5.1-5.2. For anyone to be able to apply sequential tests critical values for $\alpha = 0.01$ to $\alpha = 0.99$ is needed. Therefore the probability points from which the significance levels could be derived by $\alpha = 1 - pp$ are presented for those tests used in sequential tests. Probability points of the KS and V tests are presented in Appendix C.

One discussion and disagreement on the critical values could be that the procedure could be affected by the choice of the plotting positions and the choice of seeds. Although this is partially true, having 50,000 iterations reduces the effect of different plotting position methods. On the other hand different seeds don't change the derived values significantly. To demonstrate the difference which could occur by the different choice of seed or plotting position methods, the codes were rerun with these modifications. The arbitrarily picked results shown in Table 5.3 indicated that the first three digits are significant.

For those who would believe this was just a coincidence, the variance and the mean of the test statistics were computed for the standard tests using the IMSL subroutine UVSTA. Since each repetition produces an independent variable, the

Critical Value Tables For KS Test

Sample Size	0.01	0.05	0.10	0.15	0.20
5	0.380567	0.348933	0.323392	0.303510	0.287831
10	0.300736	0.257959	0.235709	0.220736	0.209504
15	0.253469	0.215367	0.196782	0.184310	0.175249
20	0.221813	0.188666	0.171635	0.160981	0.153013
25	0.198853	0.169580	0.154988	0.145242	0.138109
30	0.182721	0.155299	0.141785	0.133113	0.126582
35	0.170239	0.144396	0.131807	0.123711	0.117512
40	0.159956	0.135528	0.123610	0.116023	0.110250
45	0.151557	0.128573	0.117159	0.110043	0.104548
50	0.142628	0.122067	0.111227	0.104346	0.0991541

Table 5.1 Critical Values of Standard Kolmogorov-Simirnov Test

Critical Value Tables For Kuiper Test

Sample Size	0.01	0.05	0.10	0.15	0.20
5	0.406213	0.397407	0.392542	0.387390	0.381950
10	0.362358	0.330308	0.310818	0.297784	0.288634
15	0.308774	0.278230	0.261920	0.251576	0.243568
20	0.272266	0.244890	0.230918	0.221941	0.214768
25	0.246377	0.221437	0.208693	0.200177	0.193583
30	0.227202	0.203890	0.192283	0.184601	0.178265
35	0.212538	0.189974	0.179019	0.171636	0.165903
40	0.199685	0.178778	0.168041	0.161187	0.155927
45	0.189803	0.169454	0.159004	0.152553	0.147584
50	0.179543	0.160997	0.151704	0.145487	0.140647

Table 5.2 Critical values of Standard Kuiper Test

mean of these variables is normally distributed and has the variance of $\frac{\sigma^2}{n}$ where σ^2 is the variance of the each variable. UVSTA computes σ from the 50,000 independent values. The subroutine uses $n-1$ in the denominator [16:26]. But for the sample size of 50,000 it needs to be modified so that it uses n in the denominator. The modified results were used in computing the confidence intervals. The confidence interval were picked as 0.95 using 2σ around the mean and are shown in Table 5.4. These confidence intervals support the experimental results explained above. That is, the first three digits are significant.

Plotting positions	seed	$n = 5$ $\alpha = 0.01$	$n = 20$ $\alpha = 0.15$	$n = 30$ $\alpha = 0.20$	$n = 40$ $\alpha = 0.10$	$n = 50$ $\alpha = 0.01$
KS critical values						
Median	seed1	0.308567	0.160981	0.126582	0.123610	0.142628
Median	seed2	0.380497	0.160967	0.126712	0.123745	0.142759
Mean	seed1	0.308567	0.160980	0.126581	0.123609	0.142628
Mean	seed2	0.308476	0.160967	0.126712	0.123744	0.142755
V critical values						
Median	seed1	0.406213	0.221941	0.178265	0.168041	0.179543
Median	seed2	0.406759	0.221863	0.178188	0.168201	0.179449
Mean	seed1	0.406208	0.221941	0.178265	0.168040	0.179542
Mean	seed2	0.406758	0.221863	0.178187	0.168198	0.179442

Table 5.3 Comparison of different seed and plotting positions

Examining the tables reveals that the critical values at each level decrease as the sample size increases. But the decrement reduces as the sample size increases. This shows that if the sample size is increased to 70 or 80 there is a high possibility that the critical values would become stable at certain values. In other words, it reaches the asymptotic values.

The critical values for the reflected tests are shown in Table 5.5 and Table 5.6. Those tables show the same kind of behavior as the standard tests.

One significant result of the critical values for reflected case is that the critical values of the Kuiper test are exactly twice of the KS tests' critical values. The reason of this can be explained analytically. Since reflection method makes the

Confidence Intervals ($\mu 2\sigma\mp$)					
	Standard V			Standard KS	
n	Upper Level	Lower Level		Upper Level	Lower Level
10	0.254864	0.254111		0.174855	0.174060
20	0.188266	0.187691		0.127844	0.127263
30	0.156609	0.156130		0.105712	0.105233
40	0.136966	0.136545		0.092182	0.091765
50	0.123461	0.123082		0.082972	0.082599

Table 5.4 95% Confidence intervals for the standard test critical values

sample exactly symmetric around the location parameter, each original data has its shade on the other tail of the sample. Therefore, the difference between EDF and CDF is the same for the distance below CDF (D^-) and above the CDF (D^+). This causes V which is $(D^- + D^+)$ to be twice of KS which is $\max(D^-, D^+)$. Then the critical values come up to be twice of the KS test's.

Sequential tests were generated for the same sample sizes as with the other tests. But the individual levels were applied at $\alpha = 0.01$ to $\alpha = 0.20$. The resulting significance levels were displayed on Tables 5.7-5.8-5.9 for $CM - V$, $CM(Ref) - V$ and $KS - V$ respectively. For any significance level of the sequential tests, the critical values are found from the corresponding tables of the individual tests at the corresponding α levels which makes that combination. The critical values for the CM and $CM(Ref)$ were regenerated for $\alpha = 0.01$ to $\alpha = 0.20$. These values are presented in Appendix C.

Critical Value Tables For Reflected Kolmogorov-Simirnof Test

Sample Size	0.01	0.05	0.10	0.15	0.20
5	0.189259	0.174465	0.163567	0.155546	0.149005
10	0.152496	0.132005	0.121476	0.114804	0.109569
15	0.127946	0.109796	0.101152	0.0953480	0.0911097
20	0.111987	0.0962494	0.0884780	0.0836405	0.0798408
25	0.100054	0.0866854	0.0795794	0.0750562	0.0717741
30	0.0921714	0.0796089	0.0730191	0.0689407	0.0658787
35	0.0861675	0.0741554	0.0682073	0.0643613	0.0613910
40	0.0806550	0.0693129	0.0637385	0.0602629	0.0575298
45	0.0761050	0.0656666	0.0604009	0.0570317	0.0544294
50	0.0727273	0.0623701	0.0573534	0.0541432	0.0516491

Table 5.5 Critical Values of Reflected Kolmogorov-Simirnof Test

Critical Value Tables For Reflected Kuiper Test

Sample Size	0.01	0.05	0.10	0.15	0.20
5	0.378519	0.348929	0.327134	0.311092	0.298009
10	0.304992	0.264009	0.242952	0.229608	0.219137
15	0.255892	0.219592	0.202303	0.190696	0.182219
20	0.223974	0.192499	0.176956	0.167281	0.159682
25	0.200109	0.173371	0.159159	0.150112	0.143548
30	0.184343	0.159218	0.146038	0.137881	0.131757
35	0.172335	0.148311	0.136414	0.128723	0.122782
40	0.161310	0.138626	0.127477	0.120526	0.115060
45	0.152210	0.131333	0.120802	0.114063	0.108859
50	0.145455	0.124740	0.114707	0.108286	0.103298

Table 5.6 Critical Values of Reflected Kuiper Test

Significance levels for $CM - V$ Sequential test for $n = 5$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	[illegible]	[illegible]
0.01	.00000	.01012	.02024	.03032	.04036	.05042	.06056	.07068	.08082	.09100	.10106	.11116	.12132	.13138	.14152	.15160	.16176	.17190	.18200	.19212
0.02	.01014	.01986	.02964	.03936	.04914	.05904	.06892	.07880	.08870	.09858	.10836	.11842	.12840	.13840	.14840	.15838	.16830	.17816	.18812	.19806
0.03	.02028	.02968	.03926	.04864	.05810	.06786	.07756	.08722	.09698	.10670	.11646	.12622	.13610	.14592	.15580	.16558	.17550	.18534	.19514	.20494
0.04	.03050	.03952	.04876	.05794	.06708	.07656	.08602	.09550	.10502	.11464	.12422	.13386	.14362	.15320	.16294	.17270	.18244	.19220	.20180	.21152
0.05	.04060	.04930	.05818	.06712	.07612	.08536	.09462	.10398	.11324	.12274	.13216	.14162	.15118	.16064	.17032	.17990	.18950	.19916	.20850	.21786
0.06	.05070	.05898	.06774	.07638	.08506	.09414	.10316	.11234	.12148	.13088	.14013	.14940	.15882	.16810	.17762	.18690	.19634	.20574	.21488	.22414
0.07	.06076	.06856	.07706	.08556	.09390	.10286	.11168	.12072	.12970	.13890	.14804	.15720	.16648	.17554	.18483	.19406	.20340	.21270	.22174	.23078
0.08	.07082	.07830	.08654	.09484	.10300	.11184	.12048	.12930	.13836	.14730	.15630	.16532	.17446	.18336	.19256	.20156	.21076	.21996	.22890	.23780
0.09	.08090	.08798	.09596	.10404	.11188	.12052	.12890	.13748	.14626	.15516	.16406	.17302	.18200	.19086	.19988	.20874	.21776	.22686	.23560	.24444
0.10	.09100	.09766	.10540	.11332	.12102	.12940	.13768	.14608	.15472	.16346	.17220	.18110	.18992	.19858	.20742	.21624	.22510	.23400	.24260	.25150
0.11	.10120	.10744	.11490	.12266	.13010	.13834	.14642	.15466	.16320	.17180	.18022	.18894	.19770	.20624	.21492	.22362	.23234	.24108	.24954	.25816
0.12	.11132	.11728	.12434	.13180	.13898	.14710	.15492	.16302	.17146	.17984	.18810	.19662	.20528	.21378	.22234	.23088	.23930	.24790	.25628	.26470
0.13	.12144	.12698	.13366	.14090	.14786	.15574	.16332	.17132	.17956	.18772	.19590	.20426	.21276	.22112	.22954	.23794	.24630	.25480	.26304	.27136
0.14	.13156	.13694	.14340	.15028	.15700	.16464	.17210	.17998	.18800	.19604	.20404	.21232	.22066	.22890	.23720	.24554	.25376	.26218	.27036	.27856
0.15	.14168	.14674	.15300	.15968	.16622	.17358	.18086	.18856	.19640	.20426	.21206	.22018	.22840	.23664	.24478	.25300	.26114	.26946	.27752	.28556
0.16	.15174	.15648	.16260	.16912	.17552	.18262	.18968	.19720	.20496	.21266	.22022	.22822	.23622	.24426	.25236	.26044	.26842	.27656	.28458	.29245
0.17	.16180	.16610	.17188	.17818	.18450	.19148	.19838	.20584	.21322	.22076	.22824	.23614	.24396	.25190	.25986	.26778	.27560	.28374	.29150	.29924
0.18	.17190	.17600	.18144	.18754	.19364	.20040	.20708	.21410	.22136	.22872	.23598	.24370	.25138	.25912	.26704	.27488	.28262	.29067	.29830	.30590
0.19	.18200	.18578	.19096	.19678	.20268	.20928	.21578	.22258	.22976	.23696	.24408	.25170	.25924	.26670	.27448	.28218	.28976	.29766	.30522	.31270
0.20	.19210	.19556	.20058	.20618	.21180	.21832	.22466	.23132	.23836	.24558	.25232	.25980	.26720	.27450	.28210	.28974	.29724	.30504	.31244	.31934

Significance levels for $CM - V$ Sequential test for $n = 10$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01012	.02028	.03042	.04054	.05062	.06078	.07088	.08096	.09114	.10124	.11136	.12144	.13158	.14162	.15170	.16186	.17198	.18204	.19210
0.02	.01008	.01954	.02932	.03912	.04888	.05872	.06864	.07846	.08830	.09818	.10796	.11786	.12776	.13762	.14744	.15728	.16722	.17726	.18710	.19690
0.03	.02026	.02932	.03862	.04800	.05756	.06714	.07682	.08646	.09594	.10550	.11498	.12454	.13414	.14388	.15352	.16312	.17280	.18274	.19238	.20188
0.04	.03040	.03908	.04798	.05708	.06642	.07572	.08516	.09452	.10372	.11300	.12216	.13154	.14088	.15032	.15966	.16916	.17866	.18836	.19782	.20716
0.05	.04054	.04886	.05742	.06628	.07534	.08446	.09360	.10270	.11170	.12078	.12970	.13878	.14802	.15728	.16638	.17574	.18506	.19466	.20392	.21314
0.06	.05064	.05864	.06690	.07534	.08422	.09314	.10194	.11088	.11956	.12838	.13718	.14608	.15518	.16412	.17306	.18230	.19146	.20084	.20994	.21896
0.07	.06070	.06824	.07616	.08426	.09294	.10160	.11022	.11892	.12746	.13604	.14472	.15338	.16224	.17100	.17978	.18878	.19772	.20702	.21598	.22476
0.08	.07072	.07790	.08546	.09340	.10190	.11036	.11868	.12720	.13556	.14404	.15258	.16110	.16978	.17820	.18676	.19564	.20440	.21358	.22238	.23106
0.09	.08082	.08752	.09462	.10238	.11072	.11896	.12710	.13538	.14350	.15170	.16006	.16836	.17694	.18518	.19352	.20220	.21078	.21980	.22840	.23684
0.10	.09102	.09728	.10418	.11168	.11976	.12778	.13562	.14356	.15154	.15956	.16778	.17596	.18426	.19224	.20046	.20898	.21740	.22624	.23472	.24296
0.11	.10104	.10692	.11338	.12074	.12848	.13628	.14390	.15168	.15950	.16734	.17536	.18336	.19158	.19942	.20748	.21574	.22404	.23266	.24098	.24904
0.12	.11112	.11672	.12290	.13000	.13742	.14514	.15256	.16012	.16782	.17550	.18348	.19128	.19934	.20700	.21488	.22292	.23100	.23952	.24766	.25560
0.13	.12124	.12652	.13238	.13920	.14652	.15392	.16104	.16830	.17580	.18330	.19112	.19880	.20660	.21412	.22194	.22982	.23770	.24608	.25404	.26188
0.14	.13136	.13634	.14198	.14858	.15576	.16280	.16966	.17674	.18398	.19132	.19898	.20650	.21422	.22158	.22920	.23694	.24468	.25290	.26064	.26836
0.15	.14152	.14632	.15164	.15814	.16518	.17208	.17866	.18550	.19260	.19974	.20724	.21452	.22206	.22928	.23676	.24434	.25190	.26000	.26758	.27508
0.16	.15162	.15614	.16130	.16758	.17434	.18100	.18744	.19410	.20104	.20804	.21534	.22246	.22990	.23698	.24438	.25186	.25922	.26716	.27466	.28196
0.17	.16166	.16600	.17092	.17700	.18350	.18998	.19626	.20270	.20948	.21634	.22348	.23052	.23780	.24470	.25196	.25932	.26660	.27442	.28174	.28888
0.18	.17194	.17594	.18062	.18658	.19292	.19916	.20526	.21148	.21814	.22486	.23184	.23862	.24584	.25258	.25974	.26700	.27406	.28162	.28880	.29578
0.19	.18204	.18580	.19026	.19608	.20224	.20832	.21430	.22032	.22682	.23342	.24030	.24682	.25380	.26042	.26746	.27460	.28158	.28904	.29606	.30294
0.20	.19208	.19552	.19970	.20538	.21144	.21732	.22318	.22904	.23542	.24190	.24866	.25512	.26206	.26846	.27528	.28240	.28930	.29670	.30356	.31032

Table 5.7 Significance levels of $CM - V$ sequential test

Significance levels for $CM - V$ Sequential test for $n = 15$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01010	.02022	.03030	.04040	.05056	.06068	.07078	.08086	.09098	.10114	.11124	.12134	.13140	.14150	.15162	.16170	.17180	.18194	.19204
0.02	.01008	.01978	.02948	.03916	.04902	.05890	.06856	.07836	.08814	.09808	.10804	.11796	.12776	.13768	.14752	.15736	.16716	.17706	.18708	.19676
0.03	.02018	.02934	.03852	.04778	.05730	.06676	.07606	.08562	.09516	.10482	.11448	.12410	.13370	.14348	.15314	.16284	.17248	.18228	.19200	.20148
0.04	.03026	.03890	.04768	.05660	.06582	.07508	.08420	.09354	.10286	.11228	.12172	.13096	.14032	.14994	.15946	.16906	.17858	.18826	.19768	.20698
0.05	.04034	.04864	.05708	.06572	.07454	.08360	.09240	.10148	.11066	.11980	.12904	.13810	.14722	.15660	.16602	.17542	.18480	.19430	.20354	.21272
0.06	.05056	.05860	.06666	.07498	.08348	.09234	.10086	.10974	.11866	.12756	.13656	.14540	.15442	.16372	.17302	.18226	.19146	.20086	.20988	.21886
0.07	.06074	.06842	.07616	.08422	.09246	.10112	.10940	.11794	.12654	.13516	.14398	.15260	.16144	.17056	.17978	.18890	.19790	.20708	.21602	.22490
0.08	.07084	.07808	.08558	.09338	.10138	.10988	.11790	.12618	.13458	.14300	.15168	.16022	.16892	.17788	.18688	.19584	.20458	.21366	.22242	.23118
0.09	.08098	.08778	.09504	.10256	.11038	.11872	.12652	.13452	.14264	.15094	.15934	.16776	.17624	.18502	.19386	.20272	.21120	.22016	.22882	.23748
0.10	.09106	.09756	.10448	.11176	.11932	.12744	.13498	.14282	.15078	.15886	.16702	.17526	.18352	.19212	.20076	.20942	.21782	.22662	.23516	.24370
0.11	.10122	.10740	.11398	.12104	.12836	.13622	.14354	.15110	.15892	.16678	.17474	.18282	.19084	.19936	.20782	.21630	.22456	.23330	.24170	.25004
0.12	.11128	.11724	.12356	.13028	.13742	.14502	.15208	.15938	.16696	.17466	.18252	.19046	.19822	.20658	.21490	.22322	.23132	.23986	.24810	.25624
0.13	.12142	.12706	.13316	.13976	.14678	.15412	.16092	.16802	.17546	.18288	.19052	.19836	.20592	.21420	.22232	.23048	.23848	.24678	.25492	.26290
0.14	.13150	.13682	.14264	.14912	.15600	.16312	.16980	.17672	.18400	.19130	.19878	.20640	.21386	.22196	.23000	.23810	.24592	.25402	.26206	.26996
0.15	.14158	.14662	.15234	.15866	.16514	.17204	.17856	.18528	.19232	.19946	.20684	.21424	.22154	.22940	.23734	.24534	.25300	.26092	.26878	.27640
0.16	.15166	.15650	.16208	.16816	.17450	.18118	.18750	.19412	.20106	.20810	.21532	.22250	.22964	.23732	.24506	.25290	.26030	.26808	.27580	.28328
0.17	.16176	.16628	.17158	.17744	.18362	.19014	.19634	.20278	.20958	.21652	.22354	.23056	.23746	.24508	.25270	.26042	.26776	.27540	.28296	.29034
0.18	.17184	.17608	.18120	.18692	.19294	.19926	.20536	.21168	.21818	.22498	.23178	.23864	.24544	.25282	.26028	.26790	.27510	.28252	.28994	.29716
0.19	.18190	.18596	.19092	.19642	.20228	.20840	.21430	.22050	.22684	.23348	.24016	.24686	.25352	.26072	.26796	.27542	.28244	.28966	.29696	.30402
0.20	.19210	.19588	.20062	.20596	.21154	.21746	.22322	.22914	.23524	.24176	.24834	.25496	.26150	.26852	.27562	.28288	.28980	.29684	.30408	.31104

Significance levels for $CM - V$ Sequential test for $n = 20$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01018	.02028	.03032	.04046	.05060	.06066	.07078	.08088	.09098	.10106	.11120	.12132	.13140	.14146	.15158	.16166	.17170	.18184	.19200
0.02	.01012	.01976	.02956	.03922	.04896	.05858	.06840	.07836	.08814	.09798	.10786	.11760	.12760	.13746	.14730	.15728	.16724	.17692	.18676	.19670
0.03	.02022	.02928	.03870	.04794	.05736	.06672	.07628	.08596	.09550	.10502	.11466	.12436	.13388	.14350	.15304	.16280	.17260	.18214	.19178	.20154
0.04	.03034	.03880	.04780	.05686	.06600	.07518	.08446	.09390	.10322	.11252	.12190	.13134	.14062	.14998	.15924	.16882	.17840	.18774	.19722	.20678
0.05	.04040	.04852	.05720	.06586	.07462	.08360	.09262	.10182	.11096	.12002	.12918	.13850	.14762	.15678	.16586	.17518	.18462	.19380	.20318	.21248
0.06	.05054	.05826	.06660	.07498	.08338	.09206	.10084	.10978	.11872	.12758	.13656	.14560	.15470	.16358	.17248	.18162	.19088	.19980	.20904	.21812
0.07	.06064	.06790	.07586	.08392	.09216	.10068	.10916	.11794	.12664	.13522	.14402	.15314	.16188	.17056	.17932	.18826	.19728	.20608	.21508	.22400
0.08	.07078	.07760	.08524	.09310	.10110	.10926	.11764	.12624	.13482	.14318	.15178	.16064	.16926	.17778	.18636	.19512	.20396	.21266	.22154	.23042
0.09	.08086	.08736	.09484	.10242	.11028	.11824	.12634	.13482	.14320	.15124	.15964	.16828	.17678	.18520	.19364	.20216	.21084	.21940	.22810	.23678
0.10	.09096	.09700	.10420	.11142	.11908	.12680	.13466	.14304	.15130	.15916	.16720	.17572	.18414	.19248	.20078	.20918	.21782	.22628	.23484	.24338
0.11	.10112	.10696	.11388	.12078	.12820	.13574	.14336	.15148	.15958	.16736	.17526	.18358	.19182	.20004	.20822	.21640	.22492	.23324	.24166	.25008
0.12	.11126	.11684	.12356	.13022	.13736	.14466	.15212	.16012	.16802	.17552	.18330	.19148	.19948	.20754	.21556	.22368	.23202	.24012	.24840	.25664
0.13	.12138	.12660	.13310	.13950	.14648	.15352	.16082	.16860	.17632	.18366	.19128	.19934	.20720	.21510	.22294	.23100	.23916	.24710	.25526	.26330
0.14	.13148	.13630	.14262	.14886	.15560	.16240	.16950	.17704	.18454	.19160	.19910	.20704	.21488	.22258	.23024	.23812	.24616	.25400	.26200	.26992
0.15	.14152	.14622	.15226	.15834	.16476	.17134	.17830	.18572	.19300	.19996	.20736	.21512	.22288	.23040	.23794	.24574	.25362	.26136	.26926	.27702
0.16	.15154	.15594	.16180	.16768	.17390	.18020	.18698	.19428	.20140	.20824	.21546	.22304	.23066	.23806	.24544	.25314	.26086	.26846	.27608	.28372
0.17	.16156	.16586	.17152	.17720	.18306	.18922	.19588	.20304	.21002	.21674	.22384	.23128	.23884	.24608	.25326	.26084	.26846	.27592	.28336	.29080
0.18	.17182	.17564	.18108	.18648	.19214	.19818	.20470	.21154	.21836	.22488	.23192	.23922	.24656	.25364	.26080	.26826	.27574	.28298	.29028	.29762
0.19	.18194	.18562	.19094	.19624	.20170	.20760	.21394	.22056	.22716	.23354	.24038	.24752	.25466	.26152	.26852	.27586	.28316	.29028	.29740	.30452
0.20	.19210	.19552	.20066	.20578	.21106	.21680	.22296	.22938	.23572	.24204	.24878	.25578	.26274	.26954	.27644	.28362	.29078	.29778	.30476	.31180

Table 5.7 (Continued)

Significance levels for $CM - V$ Sequential test for $n = 25$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01012	.02018	.03032	.04040	.05056	.06066	.07080	.08090	.09094	.10106	.11118	.12132	.13138	.14150	.15160	.16170	.17180	.18190	.19204
0.02	.01006	.01956	.02925	.03914	.04882	.05878	.06850	.07852	.08842	.09818	.10816	.11816	.12804	.13766	.14768	.15746	.16734	.17718	.18704	.19698
0.03	.02000	.02916	.03844	.04788	.05736	.06710	.07662	.08636	.09598	.10552	.11528	.12500	.13464	.14428	.15376	.16332	.17294	.18262	.19230	.20212
0.04	.03018	.03856	.04746	.05654	.06578	.07532	.08456	.09408	.10352	.11264	.12234	.13182	.14114	.15060	.15988	.16926	.17862	.18806	.19760	.20726
0.05	.04032	.04816	.05684	.06572	.07466	.08402	.09298	.10234	.11154	.12058	.12976	.13904	.14812	.15738	.16650	.17568	.18484	.19410	.20340	.21290
0.06	.05042	.05776	.06604	.07454	.08314	.09224	.10108	.11028	.11920	.12800	.13702	.14610	.15508	.16416	.17316	.18208	.19103	.20008	.20906	.21848
0.07	.06050	.06704	.07556	.08386	.09220	.10096	.10952	.11852	.12722	.13580	.14468	.15356	.16242	.17128	.18014	.18890	.19764	.20640	.21528	.22444
0.08	.07066	.07752	.08522	.09328	.10128	.10980	.11806	.12688	.13538	.14370	.15236	.16108	.16970	.17840	.18704	.19572	.20440	.21308	.22190	.23086
0.09	.08070	.08718	.09460	.10244	.11032	.11854	.12650	.13512	.14338	.15146	.15998	.16854	.17696	.18548	.19392	.20250	.21114	.21976	.22846	.23720
0.10	.09076	.09686	.10394	.11148	.11912	.12718	.13500	.14344	.15148	.15936	.16768	.17608	.18432	.19258	.20082	.20918	.21772	.22610	.23460	.24318
0.11	.10084	.10674	.11362	.12080	.12820	.13610	.14378	.15218	.16002	.16770	.17590	.18412	.19222	.20040	.20844	.21658	.22492	.23314	.24154	.24994
0.12	.11096	.11658	.12314	.12998	.13718	.14486	.15244	.16066	.16832	.17590	.18390	.19198	.19992	.20795	.21586	.22388	.23192	.24002	.24834	.25662
0.13	.12098	.12628	.13258	.13922	.14616	.15368	.16110	.16904	.17650	.18396	.19176	.19970	.20753	.21540	.22310	.23092	.23874	.24670	.25496	.26300
0.14	.13108	.13614	.14218	.14850	.15518	.16260	.16988	.17768	.18492	.19218	.19974	.20750	.21506	.22284	.23044	.23820	.24588	.25370	.26182	.26972
0.15	.14108	.14588	.15154	.15760	.16416	.17148	.17860	.18628	.19346	.20056	.20796	.21564	.22360	.23062	.23812	.24580	.25336	.26100	.26894	.27670
0.16	.15120	.15574	.16112	.16690	.17324	.18024	.18714	.19456	.20162	.20856	.21576	.22330	.23046	.23802	.24538	.25294	.26038	.26794	.27570	.28338
0.17	.16132	.16566	.17074	.17628	.18242	.18920	.19596	.20320	.21000	.21674	.22384	.23128	.23828	.24570	.25288	.26028	.26756	.27502	.28264	.29012
0.18	.17138	.17548	.18036	.18562	.19160	.19816	.20480	.21176	.21832	.22496	.23186	.23922	.24604	.25324	.26030	.26758	.27474	.28208	.28956	.29692
0.19	.18148	.18540	.19004	.19514	.20096	.20734	.21374	.22050	.22682	.23332	.24002	.24722	.25392	.26100	.26784	.27496	.28198	.28930	.29664	.30382
0.20	.19152	.19524	.19962	.20456	.21016	.21642	.22268	.22932	.23550	.24188	.24840	.25548	.26196	.26894	.27570	.28270	.28960	.29680	.30406	.31110

Significance levels for $CM - V$ Sequential test for $n = 30$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01014	.02020	.03034	.04042	.05054	.06058	.07076	.08084	.09090	.10102	.11120	.12130	.13138	.14148	.15156	.16166	.17176	.18190	.19198
0.02	.01010	.01984	.02954	.03934	.04920	.05880	.06858	.07858	.08846	.09830	.10812	.11796	.12782	.13772	.14754	.15750	.16724	.17712	.18696	.19684
0.03	.02026	.02953	.03886	.04842	.05794	.06728	.07678	.08648	.09596	.10556	.11518	.12486	.13462	.14430	.15388	.16358	.17314	.18288	.19250	.20214
0.04	.03028	.03914	.04798	.05722	.06652	.07560	.08488	.09426	.10352	.11290	.12234	.13176	.14144	.15096	.16042	.16998	.17934	.18882	.19830	.20778
0.05	.04040	.04878	.05724	.06614	.07512	.08396	.09304	.10222	.11128	.12038	.12960	.13884	.14828	.15754	.16692	.17620	.18536	.19476	.20404	.21316
0.06	.05052	.05856	.06670	.07526	.08396	.09242	.10120	.11004	.11884	.12762	.13662	.14564	.15494	.16400	.17316	.18218	.19114	.20040	.20946	.21852
0.07	.06058	.06814	.07608	.08440	.09298	.10116	.10970	.11830	.12688	.13548	.14430	.15310	.16236	.17114	.18002	.18894	.19774	.20680	.21552	.22444
0.08	.07066	.07794	.08564	.09372	.10216	.11012	.11842	.12682	.13520	.14364	.15228	.16100	.16988	.17850	.18718	.19594	.20456	.21334	.22184	.23050
0.09	.08076	.08778	.09508	.10286	.11106	.11874	.12684	.13504	.14320	.15138	.15970	.16830	.17704	.18554	.19412	.20278	.21128	.21992	.22832	.23688
0.10	.09082	.09748	.10450	.11204	.12000	.12748	.13540	.14336	.15126	.15930	.16752	.17606	.18466	.19302	.20150	.21004	.21840	.22684	.23506	.24350
0.11	.10096	.10732	.11408	.12128	.12906	.13638	.14418	.15206	.15984	.16750	.17554	.18390	.19230	.20044	.20880	.21710	.22524	.23350	.24156	.24990
0.12	.11100	.11714	.12380	.13076	.13836	.14550	.15310	.16088	.16856	.17620	.18402	.19212	.20032	.20830	.21650	.22458	.23256	.24068	.24870	.25676
0.13	.12108	.12702	.13344	.14020	.14752	.15440	.16182	.16932	.17684	.18430	.19188	.19974	.20766	.21550	.22348	.23144	.23924	.24724	.25506	.26300
0.14	.13120	.13674	.14284	.14934	.15644	.16320	.17056	.17790	.18530	.19260	.20006	.20764	.21540	.22310	.23084	.23870	.24632	.25422	.26184	.26974
0.15	.14126	.14652	.15238	.15872	.16574	.17230	.17946	.18668	.19400	.20116	.20848	.21596	.22350	.23092	.23856	.24614	.25362	.26144	.26898	.27670
0.16	.15138	.15650	.16198	.16810	.17472	.18114	.18814	.19512	.20232	.20934	.21646	.22388	.23126	.23848	.24604	.25346	.26072	.26838	.27584	.28348
0.17	.16152	.16644	.17176	.17766	.18402	.19032	.19712	.20390	.21092	.21744	.22476	.23204	.23932	.24642	.25380	.26096	.26804	.27558	.28284	.29028
0.18	.17166	.17630	.18136	.18704	.19328	.19944	.20604	.21270	.21950	.22622	.23300	.24004	.24722	.25420	.26140	.26846	.27538	.28278	.28990	.29716
0.19	.18178	.18628	.19114	.19652	.20246	.20842	.21492	.22146	.22808	.23466	.24128	.24816	.25512	.26196	.26898	.27588	.28276	.29002	.29700	.30412
0.20	.19184	.19620	.20094	.20590	.21166	.21748	.22378	.23016	.23662	.24306	.24954	.25622	.26300	.26974	.27648	.28316	.28990	.29698	.30392	.31088

Table 5.7 (Continued)

Significance levels for $CM - V$ Sequential test for $n = 39$

CM a V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02016	.03032	.04040	.05058	.06074	.07082	.08080	.09090	.10102	.11112	.12120	.13134	.14142	.15152	.16158	.17168	.18178	.19194
0.02	.01004	.01956	.02912	.03894	.04864	.05838	.06842	.07820	.08788	.09768	.10768	.11744	.12732	.13730	.14714	.15698	.16676	.17670	.18658	.19658
0.03	.02012	.02914	.03824	.04774	.05714	.06678	.07634	.08582	.09524	.10488	.11462	.12416	.13368	.14366	.15328	.16298	.17266	.18244	.19208	.20180
0.04	.03022	.03854	.04732	.05654	.06572	.07510	.08436	.09356	.10286	.11232	.12180	.13112	.14066	.15024	.15968	.16920	.17870	.18830	.19764	.20720
0.05	.04032	.04826	.05672	.06560	.07454	.08366	.09274	.10170	.11084	.12020	.12960	.13860	.14790	.15732	.16656	.17590	.18524	.19452	.20362	.21298
0.06	.05042	.05802	.06614	.07466	.08332	.09224	.10122	.10984	.11862	.12776	.13686	.14580	.15498	.16420	.17328	.18246	.19162	.20072	.20968	.21896
0.07	.06048	.06778	.07562	.08386	.09206	.10066	.10938	.11778	.12642	.13524	.14400	.15272	.16170	.17068	.17958	.18872	.19768	.20656	.21520	.22428
0.08	.07056	.07760	.08504	.09302	.10100	.10926	.11780	.12596	.13440	.14308	.15156	.16006	.16884	.17768	.18638	.19536	.20414	.21284	.22130	.23030
0.09	.08078	.08750	.09468	.10234	.11004	.11800	.12630	.13428	.14254	.15108	.15948	.16778	.17632	.18490	.19336	.20218	.21082	.21936	.22774	.23648
0.10	.09084	.09720	.10414	.11166	.11910	.12668	.13496	.14264	.15066	.15906	.16742	.17536	.18386	.19228	.20056	.20928	.21770	.22612	.23424	.24284
0.11	.10094	.10702	.11370	.12092	.12832	.13588	.14372	.15116	.15906	.16728	.17536	.18334	.19172	.19994	.20806	.21658	.22482	.23304	.24100	.24940
0.12	.11110	.11672	.12312	.13020	.13734	.14478	.15242	.15972	.16740	.17550	.18350	.19132	.19960	.20772	.21564	.22404	.23218	.24024	.24800	.25626
0.13	.12120	.12662	.13282	.13972	.14666	.15396	.16140	.16850	.17600	.18392	.19172	.19934	.20750	.21538	.22316	.23132	.23938	.24734	.25496	.26310
0.14	.13124	.13648	.14240	.14900	.15578	.16280	.17004	.17702	.18430	.19206	.19966	.20706	.21508	.22280	.23038	.23838	.24630	.25406	.26160	.26956
0.15	.14140	.14636	.15204	.15832	.16482	.17164	.17874	.18552	.19270	.20030	.20778	.21510	.22292	.23046	.23788	.24578	.25350	.26106	.26834	.27622
0.16	.15148	.15618	.16162	.16770	.17388	.18046	.18726	.19376	.20078	.20824	.21554	.22272	.23040	.23788	.24508	.25284	.26042	.26786	.27502	.28274
0.17	.16158	.16608	.17132	.17718	.18320	.18946	.19600	.20230	.20918	.21646	.22358	.23058	.23816	.24550	.25254	.26010	.26750	.27474	.28178	.28934
0.18	.17166	.17600	.18098	.18668	.19246	.19852	.20490	.21100	.21772	.22478	.23168	.23860	.24596	.25320	.26010	.26754	.27474	.28188	.28884	.29636
0.19	.18174	.18590	.19074	.19626	.20188	.20780	.21408	.22004	.22660	.23352	.24028	.24714	.25430	.26130	.26806	.27534	.28242	.28952	.29622	.30362
0.20	.19188	.19582	.20054	.20584	.21118	.21694	.22308	.22880	.23516	.24200	.24848	.25524	.26234	.26914	.27584	.28290	.28976	.29670	.30330	.31046

Significance levels for $CM - V$ Sequential test for $n = 40$

CM a V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01014	.02026	.03040	.04240	.05064	.06078	.07100	.08110	.09120	.10126	.11136	.12146	.13158	.14172	.15182	.16188	.17202	.18210	.19220
0.02	.01014	.01968	.02938	.03908	.05076	.05874	.06844	.07852	.08838	.09824	.10808	.11786	.12772	.13756	.14754	.15736	.16720	.17712	.18704	.19680
0.03	.02026	.02922	.03858	.04798	.05924	.06704	.07644	.08632	.09590	.10552	.11518	.12470	.13422	.14384	.15358	.16316	.17286	.18256	.19238	.20190
0.04	.03036	.03880	.04790	.05688	.06772	.07524	.08444	.09412	.10340	.11282	.12230	.13156	.14088	.15024	.15986	.16922	.17878	.18834	.19796	.20736
0.05	.04046	.04844	.05714	.06594	.07650	.08386	.09280	.10222	.11128	.12056	.12976	.13882	.14790	.15702	.16642	.17566	.18504	.19448	.20390	.21320
0.06	.05052	.05806	.06636	.07406	.08506	.09220	.10092	.11016	.11904	.12812	.13718	.14614	.15504	.16390	.17320	.18218	.19134	.20054	.20984	.21912
0.07	.06064	.06776	.07572	.08398	.09390	.10090	.10942	.11852	.12712	.13588	.14474	.15354	.16218	.17084	.17990	.18866	.19758	.20652	.21564	.22474
0.08	.07074	.07754	.08514	.09324	.10286	.10958	.11790	.12672	.13514	.14380	.15242	.16114	.16970	.17816	.18714	.19564	.20438	.21304	.22200	.23082
0.09	.08082	.08720	.09466	.10246	.11178	.11838	.12650	.13500	.14326	.15176	.16020	.16876	.17714	.18546	.19432	.20272	.21130	.21976	.22858	.23722
0.10	.09088	.09690	.10416	.11154	.12066	.12712	.13504	.14328	.15128	.15960	.16792	.17632	.18456	.19264	.20138	.20970	.21810	.22642	.23514	.24358
0.11	.10098	.10670	.11372	.12082	.12962	.13594	.14370	.15172	.15956	.16778	.17600	.18426	.19226	.20020	.20876	.21694	.22520	.23332	.24194	.25024
0.12	.11110	.11664	.12342	.13020	.13868	.14486	.15248	.16034	.16804	.17600	.18398	.19206	.19986	.20764	.21612	.22416	.23232	.24030	.24874	.25684
0.13	.12118	.12640	.13286	.13946	.14764	.15374	.16102	.16866	.17616	.18392	.19180	.19978	.20748	.21512	.22346	.23138	.23934	.24718	.25550	.26374
0.14	.13132	.13628	.14262	.14902	.15684	.16280	.16988	.17726	.18462	.19224	.19992	.20778	.21530	.22274	.23086	.23856	.24636	.25408	.26220	.27064
0.15	.14148	.14606	.15208	.15824	.16578	.17162	.17852	.18574	.19296	.20042	.20786	.21558	.22292	.23024	.23816	.24562	.25326	.26078	.26880	.27648
0.16	.15158	.15592	.16162	.16762	.17494	.18062	.18736	.19446	.20150	.20888	.21620	.22380	.23098	.23818	.24602	.25340	.26090	.26828	.27612	.28370
0.17	.16170	.16586	.17132	.17714	.18420	.18956	.19606	.20294	.20986	.21704	.22418	.23166	.23872	.24588	.25352	.26072	.26794	.27520	.28292	.29038
0.18	.17184	.17576	.18106	.18668	.19352	.19876	.20510	.21178	.21852	.22554	.23252	.23942	.24668	.25356	.26100	.26804	.27518	.28230	.28990	.29720
0.19	.18192	.18578	.19086	.19640	.20310	.20810	.21430	.22074	.22740	.23422	.24100	.24814	.25494	.26158	.26894	.27586	.28292	.28982	.29726	.30434
0.20	.19198	.19566	.20064	.20600	.21238	.21728	.22322	.22946	.23596	.24266	.24916	.25622	.26286	.26940	.27660	.28340	.29040	.29712	.30440	.31128

Table 5.7 (Continued)

Significance levels for $CM - V$ Sequential test for $n = 40$

CM a V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01014	.02032	.03056	.04066	.05072	.06080	.07088	.08096	.09110	.10124	.11138	.12142	.13144	.14104	.15176	.16186	.17198	.18208	.19218
0.02	.01010	.01966	.02944	.03928	.04904	.05878	.06870	.07850	.08828	.09816	.10800	.11794	.12766	.13754	.14750	.15746	.16736	.17726	.18718	.19708
0.03	.02022	.02920	.03874	.04826	.05764	.06718	.07684	.08632	.09582	.10558	.11518	.12484	.13440	.14400	.15374	.16350	.17324	.18294	.19270	.20242
0.04	.03032	.03902	.04820	.05744	.06652	.07566	.08496	.09420	.10356	.11310	.12256	.13198	.14138	.15084	.16038	.16982	.17936	.18884	.19842	.20776
0.05	.04038	.04852	.05754	.06642	.07530	.08426	.09318	.10218	.11116	.12052	.12984	.13898	.14824	.15752	.16682	.17610	.18544	.19476	.20410	.21340
0.06	.05050	.05828	.06710	.07556	.08416	.09284	.10158	.11032	.11914	.12824	.13738	.14630	.15546	.16454	.17360	.18264	.19160	.20068	.21006	.21892
0.07	.06060	.06820	.07666	.08478	.09318	.10166	.11026	.11874	.12738	.13624	.14522	.15394	.16262	.17172	.18060	.18956	.19856	.20746	.21648	.22512
0.08	.07078	.07804	.08626	.09412	.10232	.11070	.11898	.12724	.13558	.14412	.15290	.16154	.17028	.17898	.18758	.19640	.20528	.21402	.22292	.23140
0.09	.08086	.08784	.09568	.10336	.11120	.11920	.12718	.13526	.14340	.15170	.16040	.16894	.17744	.18596	.19444	.20300	.21164	.22018	.22894	.23736
0.10	.09098	.09752	.10502	.11246	.12014	.12800	.13578	.14354	.15152	.15966	.16804	.17640	.18480	.19324	.20154	.20978	.21820	.22650	.23514	.24334
0.11	.10114	.10736	.11456	.12178	.12916	.13670	.14426	.15182	.15950	.16760	.17584	.18398	.19228	.20058	.20870	.21680	.22506	.23322	.24174	.24956
0.12	.11120	.11714	.12402	.13110	.13828	.14562	.15298	.16038	.16788	.17570	.18376	.19176	.19994	.20800	.21590	.22360	.23208	.24000	.24820	.25610
0.13	.12124	.12698	.13366	.14040	.14724	.15416	.16136	.16868	.17592	.18358	.19138	.19928	.20716	.21496	.22274	.23056	.23866	.24650	.25460	.26224
0.14	.13132	.13684	.14330	.14984	.15650	.16322	.17018	.17742	.18442	.19196	.19960	.20738	.21512	.22276	.23036	.23808	.24603	.25370	.26160	.26904
0.15	.14140	.14654	.15272	.15898	.16544	.17202	.17876	.18582	.19264	.19998	.20740	.21500	.22266	.23010	.23758	.24520	.25302	.26058	.26826	.27576
0.16	.15150	.15636	.16240	.16850	.17478	.18110	.18758	.19452	.20126	.20852	.21578	.22328	.23082	.23802	.24549	.25292	.26054	.26790	.27556	.28286
0.17	.16162	.16626	.17202	.17798	.18404	.19022	.19652	.20326	.20984	.21682	.22388	.23124	.23864	.24574	.25296	.26054	.26782	.27506	.28248	.28958
0.18	.17168	.17608	.18158	.18734	.19326	.19928	.20544	.21196	.21836	.22516	.23194	.23916	.24638	.25336	.26044	.26764	.27500	.28218	.28952	.29660
0.19	.18174	.18590	.19116	.19662	.20238	.20828	.21432	.22054	.22684	.23346	.24008	.24714	.25430	.26124	.26820	.27524	.28252	.28946	.29670	.30348
0.20	.19174	.19562	.20080	.20606	.21166	.21736	.22312	.22914	.23540	.24190	.24846	.25534	.26240	.26916	.27596	.28292	.29012	.29690	.30402	.31070

Significance levels for $CM - V$ Sequential test for $n = 50$

CM a V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01020	.02032	.03038	.04056	.05070	.06078	.07088	.08102	.09110	.10126	.11142	.12152	.13172	.14182	.15186	.16198	.17208	.18212	.19218
0.02	.01012	.01976	.02958	.03932	.04928	.05906	.06878	.07862	.08860	.09836	.10824	.11820	.12818	.13810	.14798	.15770	.16754	.17738	.18714	.19708
0.03	.02014	.02922	.03856	.04784	.05754	.06712	.07658	.08614	.09588	.10542	.11506	.12480	.13462	.14434	.15400	.16360	.17318	.18290	.19342	.20206
0.04	.03020	.03890	.04790	.05694	.06624	.07564	.08474	.09406	.10364	.11310	.12254	.13186	.14138	.15080	.16018	.16952	.17888	.18838	.19772	.20726
0.05	.04028	.04860	.05728	.06600	.07502	.08422	.09310	.10224	.11150	.12080	.13002	.13912	.14850	.15770	.16694	.17612	.18534	.19468	.20366	.21290
0.06	.05042	.05826	.06644	.07492	.08360	.09260	.10120	.11010	.11920	.12828	.13724	.14608	.15550	.16432	.17344	.18240	.19134	.20054	.20930	.21840
0.07	.06052	.06804	.07606	.08430	.09268	.10132	.10972	.11836	.12716	.13604	.14496	.15354	.16258	.17150	.18048	.18938	.19812	.20714	.21576	.22470
0.08	.07062	.07776	.08564	.09362	.10158	.10986	.11800	.12646	.13512	.14378	.15234	.16080	.16960	.17830	.18710	.19590	.20448	.21332	.22182	.23054
0.09	.08082	.08762	.09526	.10292	.11070	.11864	.12646	.13474	.14322	.15148	.15994	.16808	.17674	.18532	.19386	.20248	.21098	.21968	.22802	.23652
0.10	.09092	.09736	.10466	.11210	.11960	.12732	.13484	.14296	.15124	.15928	.16760	.17560	.18410	.19250	.20088	.20940	.21778	.22632	.23456	.24284
0.11	.10106	.10728	.11426	.12142	.12880	.13626	.14370	.15172	.15974	.16768	.17574	.18362	.19204	.20026	.20848	.21688	.22504	.23354	.24164	.24974
0.12	.11114	.11706	.12378	.13086	.13806	.14524	.15254	.16038	.16824	.17604	.18380	.19148	.19974	.20790	.21602	.22424	.23222	.24054	.24852	.25640
0.13	.12122	.12680	.13320	.14004	.14708	.15416	.16126	.16888	.17652	.18422	.19178	.19934	.20738	.21542	.22342	.23156	.23946	.24764	.25558	.26350
0.14	.13126	.13650	.14260	.14924	.15608	.16308	.17002	.17748	.18504	.19262	.20006	.20750	.21536	.22328	.23112	.23896	.24676	.25484	.26262	.27020
0.15	.14134	.14628	.15216	.15864	.16530	.17214	.17880	.18612	.19342	.20080	.20802	.21528	.22286	.23052	.23822	.24598	.25372	.26174	.26944	.27706
0.16	.15144	.15604	.16164	.16788	.17420	.18076	.18728	.19446	.20148	.20864	.21580	.22286	.23030	.23788	.24546	.25306	.26064	.26852	.27610	.28356
0.17	.16158	.16604	.17144	.17756	.18362	.19000	.19636	.20336	.21024	.21720	.22418	.23110	.23838	.24574	.25310	.26062	.26810	.27572	.28314	.29050
0.18	.17160	.17588	.18106	.18694	.19286	.19904	.20522	.21206	.21868	.22546	.23228	.23908	.24622	.25350	.26066	.26798	.27524	.28264	.28988	.29704
0.19	.18164	.18554	.19050	.19622	.20206	.20804	.21402	.22062	.22720	.23376	.24048	.24718	.25420	.26128	.26834	.27546	.28266	.28994	.29710	.30406
0.20	.19172	.19552	.20024	.20570	.21144	.21734	.22310	.22958	.23598	.24236	.24894	.25544	.26226	.26914	.27614	.28310	.29018	.29736	.30432	.31112

Table 5.7 (Continued)

Significance levels for $CM(Ref) - V$ Sequential test for $n = 5$

$CM(R)\ \alpha$ / $V\ c$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01010	.02018	.03026	.04038	.05056	.06072	.07082	.08098	.09110	.10128	.11142	.12152	.13160	.14172	.15182	.16190	.17210	.18210	.19230
0.02	.01014	.01996	.02938	.03886	.04860	.05812	.06750	.07682	.08614	.09572	.10584	.11596	.12598	.13598	.14598	.15602	.16602	.17606	.18606	.19612
0.03	.02028	.02982	.03886	.04784	.05722	.06642	.07544	.08430	.09318	.10220	.11184	.12172	.13156	.14142	.15124	.16110	.17106	.18100	.19064	.20076
0.04	.03050	.03960	.04826	.05692	.06596	.07492	.08370	.09222	.10072	.10938	.11860	.12826	.13788	.14758	.15728	.16704	.17690	.18672	.19638	.20612
0.05	.04060	.04944	.05774	.06604	.07472	.08334	.09180	.09998	.10816	.11632	.12514	.13452	.14392	.15348	.16298	.17264	.18226	.19192	.20142	.21100
0.06	.05070	.05912	.06710	.07508	.08332	.09166	.09976	.10774	.11570	.12342	.13184	.14074	.15002	.15958	.16882	.17832	.18786	.19746	.20688	.21650
0.07	.06076	.06868	.07622	.08378	.09168	.09966	.10756	.11532	.12306	.13052	.13836	.14668	.15568	.16484	.17402	.18332	.19270	.20218	.21142	.22082
0.08	.07082	.07842	.08560	.09284	.10044	.10816	.11586	.12336	.13066	.13792	.14550	.15354	.16218	.17118	.18024	.18930	.19860	.20788	.21696	.22622
0.09	.08090	.08828	.09518	.10218	.10958	.11692	.12426	.13138	.13840	.14544	.15268	.16036	.16858	.17728	.18616	.19506	.20422	.21340	.22252	.23182
0.10	.09100	.09812	.10460	.11124	.11832	.12540	.13232	.13918	.14592	.15256	.15954	.16698	.17502	.18350	.19222	.20088	.20986	.21882	.22758	.23662
0.11	.10120	.10794	.11408	.12044	.12728	.13410	.14074	.14732	.15380	.16024	.16698	.17412	.18192	.19008	.19850	.20690	.21570	.22458	.23322	.24210
0.12	.11132	.11780	.12354	.12960	.13610	.14268	.14908	.15542	.16158	.16796	.17442	.18116	.18860	.19646	.20458	.21280	.22152	.23022	.23868	.24728
0.13	.12144	.12758	.13310	.13888	.14518	.15148	.15770	.16366	.16962	.17560	.18166	.18802	.19508	.20264	.21036	.21840	.22684	.23530	.24360	.25202
0.14	.13156	.13740	.14278	.14820	.15440	.16052	.16650	.17226	.17806	.18382	.18962	.19558	.20224	.20926	.21656	.22442	.23266	.24102	.24918	.25750
0.15	.14168	.14724	.15236	.15754	.16346	.16928	.17502	.18054	.18606	.19162	.19720	.20286	.20924	.21586	.22290	.23052	.23858	.24666	.25464	.26276
0.16	.15174	.15710	.16202	.16684	.17254	.17810	.18360	.18898	.19432	.19960	.20494	.21042	.21666	.22286	.22974	.23698	.24492	.25292	.26086	.26882
0.17	.16180	.16686	.17156	.17606	.18136	.18672	.19202	.19720	.20234	.20744	.21260	.21798	.22382	.22986	.23642	.24340	.25120	.25908	.26680	.27466
0.18	.17190	.17664	.18122	.18546	.19050	.19570	.20080	.20582	.21088	.21574	.22064	.22588	.23144	.23720	.24330	.24980	.25738	.26504	.27252	.28016
0.19	.18200	.18652	.19090	.19494	.19966	.20466	.20952	.21438	.21916	.22382	.22848	.23344	.23882	.24430	.25018	.25632	.26356	.27106	.27840	.28596
0.20	.19210	.19632	.20048	.20430	.20876	.21360	.21828	.22294	.22760	.23204	.23658	.24132	.24628	.25146	.25710	.26298	.26988	.27712	.28428	.29180

Significance levels for $CM(Ref) - V$ Sequential test for $n = 10$

$CM(R)\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01010	.02022	.03028	.04038	.05046	.06066	.07078	.08094	.09102	.10110	.11122	.12132	.13140	.14160	.15178	.16188	.17200	.18208	.19222
0.02	.01008	.01932	.02872	.03808	.04774	.05740	.06724	.07712	.08700	.09688	.10668	.11660	.12662	.13658	.14666	.15676	.16684	.17682	.18674	.19676
0.03	.02026	.02850	.03700	.04594	.05500	.06420	.07370	.08328	.09300	.10274	.11246	.12224	.13198	.14178	.15160	.16148	.17148	.18136	.19112	.20104
0.04	.03040	.03768	.04564	.05414	.06286	.07166	.08076	.08998	.09936	.10878	.11824	.12782	.13740	.14700	.15666	.16638	.17624	.18606	.19574	.20548
0.05	.04054	.04690	.05404	.06204	.07014	.07862	.08732	.09638	.10558	.11468	.12400	.13344	.14276	.15214	.16162	.17128	.18096	.19068	.20028	.20982
0.06	.05064	.05586	.06240	.06986	.07758	.08576	.09428	.10284	.11184	.12076	.12980	.13914	.14826	.15754	.16692	.17642	.18596	.19556	.20504	.21442
0.07	.06070	.06544	.07136	.07820	.08560	.09346	.10170	.10992	.11862	.12730	.13618	.14524	.15416	.16326	.17258	.18200	.19146	.20082	.20998	.21918
0.08	.07072	.07486	.08008	.08640	.09342	.10094	.10892	.11690	.12518	.13360	.14224	.15096	.15970	.16862	.17784	.18704	.19642	.20558	.21458	.22358
0.09	.08082	.08450	.08904	.09492	.10156	.10876	.11642	.12402	.13200	.14010	.14852	.15710	.16558	.17428	.18328	.19220	.20144	.21042	.21932	.22816
0.10	.09102	.09420	.09808	.10350	.10950	.11640	.12362	.13100	.13870	.14662	.15484	.16314	.17146	.17994	.18874	.19758	.20666	.21542	.22418	.23284
0.11	.10104	.10382	.10726	.11198	.11760	.12422	.13098	.13804	.14546	.15322	.16130	.16938	.17760	.18584	.19450	.20316	.21200	.22060	.22920	.23776
0.12	.11112	.11338	.11648	.12074	.12578	.13198	.13826	.14506	.15234	.15988	.16766	.17562	.18362	.19174	.20020	.20868	.21730	.22572	.23422	.24266
0.13	.12124	.12314	.12578	.12952	.13436	.14012	.14600	.15252	.15956	.16682	.17430	.18204	.18986	.19776	.20600	.21432	.22284	.23110	.23946	.24776
0.14	.13136	.13302	.13540	.13886	.14322	.14840	.15400	.16022	.16702	.17402	.18130	.18878	.19640	.20408	.21220	.22044	.22878	.23688	.24516	.25334
0.15	.14152	.14298	.14510	.14830	.15228	.15704	.16206	.16800	.17444	.18118	.18830	.19548	.20294	.21044	.21830	.22642	.23484	.24254	.25072	.25874
0.16	.15162	.15282	.15476	.15776	.16130	.16578	.17052	.17614	.18220	.18862	.19542	.20234	.20950	.21686	.22454	.23246	.24034	.24816	.25618	.26402
0.17	.16166	.16278	.16452	.16732	.17066	.17478	.17926	.18466	.19024	.19630	.20270	.20948	.21656	.22368	.23106	.23884	.24664	.25432	.26220	.26992
0.18	.17194	.17302	.17458	.17712	.18012	.18390	.18802	.19304	.19824	.20406	.21012	.21660	.22352	.23052	.23770	.24522	.25286	.26034	.26808	.27566
0.19	.18204	.18304	.18450	.18664	.18942	.19298	.19678	.20160	.20660	.21214	.21802	.22432	.23104	.23790	.24490	.25218	.25954	.26682	.27428	.28176
0.20	.19208	.19306	.19434	.19628	.19880	.20194	.20556	.21012	.21474	.22000	.22570	.23178	.23822	.24490	.25166	.25874	.26582	.27286	.28022	.28742

Table 5.8 Significance levels of $KS - V$ sequential tests

Significance levels for $CM(Ref) - V$ Sequential test for $n = 15$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02022	.03032	.04040	.05052	.06058	.07072	.08082	.09088	.10098	.11104	.12116	.13134	.14138	.15144	.16154	.17162	.18172	.19184
0.02	.01008	.01912	.02866	.03838	.04804	.05784	.06758	.07750	.08744	.09716	.10706	.11692	.12688	.13686	.14682	.15682	.16678	.17672	.18674	.19680
0.03	.02018	.02844	.03718	.04642	.05572	.06524	.07470	.08430	.09406	.10354	.11316	.12290	.13262	.14244	.15224	.16204	.17180	.18154	.19146	.20132
0.04	.03026	.03752	.04570	.05456	.06336	.07270	.08174	.09114	.10068	.10988	.11916	.12870	.13822	.14794	.15750	.16712	.17666	.18628	.19610	.20580
0.05	.04034	.04680	.05434	.06268	.07102	.08000	.08878	.09784	.10714	.11620	.12532	.13456	.14388	.15340	.16278	.17220	.18164	.19108	.20076	.21024
0.06	.05056	.05638	.06328	.07116	.07916	.08766	.09618	.10496	.11396	.12284	.13176	.14076	.14982	.15916	.16840	.17774	.18702	.19636	.20586	.21526
0.07	.06074	.06580	.07202	.07952	.08714	.09512	.10320	.11168	.12040	.12908	.13784	.14670	.15546	.16460	.17358	.18278	.19192	.20108	.21046	.21974
0.08	.07084	.07496	.08056	.08742	.09466	.10230	.11006	.11834	.12672	.13512	.14360	.15222	.16086	.16988	.17878	.18788	.19690	.20596	.21528	.22442
0.09	.08098	.08474	.08972	.09624	.10308	.11028	.11764	.12560	.13360	.14172	.15000	.15832	.16680	.17556	.18432	.19328	.20214	.21100	.22018	.22928
0.10	.09106	.09426	.09878	.10488	.11120	.11818	.12512	.13276	.14046	.14832	.15616	.16426	.17248	.18114	.18978	.19860	.20734	.21598	.22506	.23404
0.11	.10122	.10412	.10796	.11338	.11908	.12584	.13250	.13984	.14732	.15486	.16246	.17036	.17844	.18682	.19522	.20388	.21240	.22088	.22974	.23870
0.12	.11128	.11388	.11742	.12224	.12746	.13372	.14020	.14732	.15450	.16180	.16902	.17678	.18466	.19294	.20122	.20980	.21818	.22664	.23524	.24408
0.13	.12142	.12370	.12698	.13142	.13638	.14220	.14828	.15508	.16190	.16894	.17602	.18360	.19122	.19916	.20720	.21552	.22366	.23174	.24050	.24912
0.14	.13150	.13344	.13640	.14052	.14496	.15026	.15602	.16248	.16900	.17574	.18266	.18998	.19736	.20508	.21294	.22110	.22906	.23692	.24552	.25396
0.15	.14158	.14332	.14592	.14966	.15372	.15866	.16408	.17032	.17648	.18284	.18954	.19658	.20378	.21134	.21898	.22698	.23486	.24254	.25098	.25934
0.16	.15166	.15326	.15562	.15906	.16280	.16738	.17256	.17836	.18430	.19046	.19702	.20376	.21074	.21812	.22544	.23328	.24106	.24862	.25698	.26514
0.17	.16176	.16318	.16526	.16842	.17188	.17610	.18104	.18652	.19208	.19796	.20426	.21082	.21752	.22466	.23172	.23946	.24704	.25444	.26264	.27044
0.18	.17184	.17312	.17502	.17782	.18112	.18516	.18982	.19498	.20018	.20590	.21194	.21816	.22470	.23162	.23842	.24590	.25330	.26060	.26874	.27636
0.19	.18190	.18308	.18474	.18728	.19036	.19412	.19846	.20316	.20810	.21360	.21930	.22528	.23146	.23820	.24482	.25208	.25938	.26660	.27460	.28208
0.20	.19210	.19312	.19458	.19690	.19978	.20328	.20732	.21172	.21644	.22158	.22702	.23274	.23880	.24532	.25170	.25874	.26546	.27302	.28086	.28818

Significance levels for $CM(Ref) - V$ Sequential test for $n = 20$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02018	.03036	.04058	.05062	.06082	.07098	.08110	.09126	.10132	.11148	.12160	.13166	.14180	.15186	.16194	.17198	.18210	.19216
0.02	.01012	.01920	.02858	.03832	.04804	.05782	.06772	.07766	.08732	.09732	.10722	.11726	.12730	.13714	.14718	.15716	.16716	.17706	.18702	.19698
0.03	.02022	.02846	.03718	.04650	.05584	.06526	.07488	.08444	.09382	.10358	.11320	.12308	.13290	.14256	.15246	.16224	.17206	.18180	.19160	.20140
0.04	.03034	.03766	.04570	.05444	.06328	.07236	.08162	.09094	.10012	.10958	.11902	.12872	.13852	.14794	.15760	.16714	.17684	.18648	.19622	.20590
0.05	.04040	.04702	.05446	.06268	.07108	.07968	.08858	.09756	.10658	.11588	.12520	.13466	.14422	.15342	.16298	.17236	.18180	.19136	.20078	.21026
0.06	.05054	.05630	.06304	.07082	.07870	.08688	.09544	.10424	.11296	.12198	.13106	.14024	.14966	.15862	.16796	.17722	.18654	.19600	.20532	.21466
0.07	.06064	.06560	.07174	.07898	.08658	.09428	.10246	.11096	.11934	.12806	.13692	.14602	.15538	.16414	.17332	.18238	.19156	.20080	.20998	.21910
0.08	.07078	.07522	.08078	.08742	.09440	.10182	.10956	.11776	.12586	.13416	.14296	.15182	.16094	.16956	.17866	.18758	.19682	.20562	.21482	.22360
0.09	.08086	.08476	.08982	.09604	.10252	.10968	.11706	.12498	.13288	.14092	.14954	.15810	.16702	.17546	.18430	.19302	.20180	.21066	.21936	.22822
0.10	.09096	.09446	.09916	.10478	.11066	.11744	.12450	.13210	.13966	.14750	.15594	.16426	.17278	.18102	.18964	.19822	.20682	.21554	.22410	.23278
0.11	.10112	.10430	.10860	.11388	.11946	.12582	.13260	.13984	.14712	.15464	.16292	.17094	.17922	.18728	.19566	.20398	.21232	.22086	.22926	.23782
0.12	.11126	.11416	.11810	.12276	.12796	.13406	.14042	.14726	.15430	.16158	.16964	.17738	.18550	.19322	.20148	.20946	.21766	.22602	.23434	.24278
0.13	.12138	.12402	.12750	.13184	.13670	.14238	.14816	.15476	.16154	.16866	.17646	.18388	.19186	.19922	.20736	.21518	.22320	.23128	.23928	.24760
0.14	.13148	.13390	.13704	.14108	.14556	.15092	.15640	.16270	.16906	.17584	.18330	.19048	.19820	.20532	.21334	.22096	.22882	.23676	.24458	.25272
0.15	.14152	.14380	.14656	.15024	.15432	.15934	.16454	.17062	.17676	.18322	.19028	.19710	.20476	.21162	.21940	.22692	.23488	.24242	.25012	.25806
0.16	.15154	.15360	.15598	.15942	.16330	.16784	.17282	.17854	.18442	.19060	.19746	.20406	.21146	.21812	.22554	.23288	.24036	.24790	.25536	.26316
0.17	.16166	.16358	.16562	.16882	.17232	.17660	.18120	.18670	.19228	.19824	.20484	.21118	.21828	.22462	.23172	.23898	.24624	.25368	.26094	.26856
0.18	.17182	.17356	.17526	.17824	.18150	.18564	.18990	.19506	.20022	.20608	.21226	.21816	.22500	.23112	.23806	.24522	.25234	.25960	.26676	.27426
0.19	.18194	.18350	.18502	.18774	.19062	.19442	.19854	.20332	.20822	.21390	.21978	.22556	.23228	.23830	.24506	.25210	.25906	.26608	.27304	.28046
0.20	.19210	.19352	.19494	.19742	.20012	.20374	.20752	.21218	.21682	.22214	.22770	.23328	.23972	.24648	.25198	.25888	.26570	.27260	.27930	.28658

Table 5.8 (Continued)

Significance levels for $CM(Ref) - V$ Sequential test for n = 25

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01006	.02010	.03018	.04024	.05026	.06034	.07046	.08060	.09068	.10078	.11088	.12100	.13108	.14116	.15124	.16134	.17156	.18162	.19168
0.02	.01006	.01890	.02838	.03776	.04732	.05700	.06678	.07664	.08660	.09650	.10650	.11644	.12632	.13628	.14622	.15620	.16610	.17616	.18604	.19596
0.03	.02008	.02808	.03700	.04582	.05486	.06422	.07360	.08318	.09298	.10276	.11248	.12232	.13194	.14178	.15158	.16140	.17104	.18102	.19082	.20058
0.04	.03018	.03730	.04552	.05384	.06252	.07158	.08064	.08992	.09940	.10898	.11852	.12816	.13758	.14726	.15684	.16650	.17600	.18558	.19546	.20510
0.05	.04032	.04678	.05426	.06212	.07046	.07918	.08782	.09668	.10592	.11522	.12442	.13400	.14330	.15286	.16226	.17174	.18114	.19096	.20040	.20986
0.06	.05042	.05632	.06336	.07062	.07854	.08684	.09520	.10382	.11278	.12190	.13088	.14010	.14922	.15868	.16796	.17718	.18642	.19612	.20546	.21482
0.07	.06050	.06566	.07208	.07886	.08632	.09410	.10224	.11050	.11900	.12786	.13662	.14568	.15458	.16384	.17290	.18210	.19112	.20064	.20990	.21912
0.08	.07066	.07524	.08110	.08750	.09460	.10206	.10976	.11764	.12586	.13448	.14234	.15162	.16026	.16942	.17826	.18722	.19614	.20550	.21454	.22358
0.09	.08070	.08478	.09028	.09618	.10278	.10994	.11732	.12498	.13294	.14130	.14940	.15790	.16640	.17538	.18396	.19274	.20156	.21070	.21956	.22862
0.10	.09076	.09444	.09942	.10498	.11106	.11792	.12494	.13236	.14014	.14822	.15602	.16424	.17266	.18146	.18988	.19858	.20730	.21616	.22496	.23370
0.11	.10084	.10414	.10868	.11382	.11950	.12598	.13274	.13982	.14734	.15516	.16268	.17060	.17888	.18750	.19568	.20414	.21264	.22136	.23000	.23868
0.12	.11096	.11396	.11798	.12284	.12812	.13420	.14066	.14732	.15468	.16228	.16954	.17724	.18518	.19360	.20160	.20992	.21828	.22680	.23534	.24392
0.13	.12098	.12366	.12740	.13176	.13674	.14244	.14868	.15506	.16198	.16930	.17632	.18386	.19160	.19988	.20772	.21588	.22400	.23240	.24078	.24926
0.14	.13108	.13342	.13680	.14096	.14578	.15114	.15702	.16314	.16976	.17684	.18358	.19094	.19834	.20638	.21390	.22184	.22970	.23798	.24610	.25446
0.15	.14108	.14318	.14622	.15006	.15462	.15972	.16530	.17114	.17732	.18406	.19060	.19764	.20480	.21272	.22006	.22790	.23566	.24388	.25184	.26006
0.16	.15120	.15318	.15600	.15932	.16364	.16844	.17376	.17928	.18520	.19170	.19792	.20476	.21172	.21942	.22660	.23422	.24184	.24982	.25766	.26574
0.17	.16132	.16316	.16570	.16878	.17272	.17714	.18226	.18748	.19312	.19938	.20548	.21202	.21866	.22612	.23314	.24058	.24808	.25582	.26346	.27138
0.18	.17138	.17314	.17542	.17808	.18178	.18598	.19086	.19594	.20128	.20734	.21306	.21934	.22580	.23294	.23966	.24686	.25426	.26174	.26916	.27698
0.19	.18148	.18306	.18520	.18764	.19098	.19492	.19952	.20430	.20942	.21522	.22064	.22672	.23286	.23978	.24628	.25312	.26036	.26770	.27504	.28270
0.20	.19152	.19300	.19486	.19702	.20018	.20396	.20838	.21276	.21756	.22310	.22830	.23412	.23996	.24658	.25284	.25948	.26646	.27370	.28098	.28854

Significance levels for $CM(Ref) - V$ Sequential test for n = 30

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01012	.02028	.03036	.04040	.05050	.06064	.07076	.08086	.09094	.10102	.11112	.12128	.13134	.14144	.15148	.16158	.17164	.18182	.19188
0.02	.01010	.01924	.02866	.03818	.04794	.05784	.06770	.07748	.08732	.09718	.10698	.11694	.12696	.13698	.14690	.15684	.16684	.17684	.18688	.19682
0.03	.02024	.02858	.03722	.04616	.05550	.06500	.07456	.08404	.09360	.10336	.11306	.12274	.13264	.14252	.15228	.16212	.17196	.18190	.19178	.20166
0.04	.03028	.03782	.04592	.05442	.06340	.07282	.08178	.09098	.10028	.10976	.11912	.12858	.13826	.14804	.15758	.16716	.17678	.18658	.19638	.20608
0.05	.04040	.04704	.05446	.06242	.07080	.07956	.08852	.09716	.10622	.11552	.12474	.13398	.14352	.15318	.16250	.17192	.18142	.19112	.20076	.21036
0.06	.05052	.05638	.06332	.07080	.07876	.08712	.09574	.10396	.11278	.12188	.13090	.13998	.14934	.15884	.16796	.17722	.18648	.19604	.20556	.21502
0.07	.06058	.06580	.07208	.07912	.08674	.09464	.10292	.11094	.11952	.12850	.13722	.14614	.15530	.16462	.17368	.18282	.19194	.20132	.21058	.21984
0.08	.07066	.07532	.08116	.08772	.09486	.10236	.11032	.11802	.12630	.13494	.14344	.15222	.16122	.17040	.17934	.18826	.19718	.20638	.21548	.22450
0.09	.08076	.08496	.09026	.09654	.10318	.11026	.11796	.12532	.13324	.14158	.14974	.15830	.16718	.17606	.18480	.19354	.20230	.21134	.22030	.22916
0.10	.09082	.09464	.09946	.10550	.11174	.11846	.12576	.13282	.14030	.14828	.15628	.16466	.17328	.18198	.19050	.19914	.20772	.21654	.22528	.23398
0.11	.10096	.10450	.10882	.11444	.12030	.12668	.13364	.14032	.14744	.15516	.16292	.17104	.17946	.18798	.19628	.20460	.21308	.22176	.23044	.23896
0.12	.11100	.11426	.11812	.12332	.12872	.13482	.14138	.14790	.15478	.16228	.16972	.17756	.18566	.19392	.20190	.21000	.21828	.22684	.23536	.24372
0.13	.12108	.12402	.12756	.13226	.13708	.14282	.14904	.15540	.16214	.16946	.17664	.18430	.19208	.20012	.20784	.21576	.22390	.23228	.24066	.24884
0.14	.13120	.13378	.13694	.14118	.14578	.15120	.15712	.16312	.16966	.17672	.18362	.19110	.19870	.20656	.21408	.22180	.22976	.23790	.24612	.25404
0.15	.14126	.14356	.14644	.15036	.15462	.15974	.16522	.17094	.17728	.18398	.19064	.19782	.20528	.21294	.22026	.22788	.23574	.24372	.25180	.25944
0.16	.15138	.15340	.15602	.15958	.16362	.16842	.17356	.17902	.18508	.19142	.19788	.20484	.21198	.21934	.22654	.23410	.24182	.24966	.25768	.26512
0.17	.16152	.16322	.16560	.16892	.17272	.17718	.18202	.18726	.19314	.19908	.20538	.21216	.21912	.22638	.23330	.24070	.24814	.25586	.26370	.27102
0.18	.17166	.17320	.17544	.17860	.18212	.18632	.19092	.19588	.20146	.20726	.21322	.21980	.22642	.23334	.24008	.24722	.25446	.26198	.26960	.27674
0.19	.18178	.18318	.18518	.18798	.19132	.19526	.19962	.20438	.20970	.21524	.22092	.22726	.23366	.24032	.24692	.25362	.26092	.26812	.27554	.28256
0.20	.19184	.19306	.19484	.19736	.20046	.20410	.20832	.21290	.21786	.22318	.22862	.23460	.24088	.24730	.25364	.26050	.26730	.27444	.28172	.28858

Table 5.8 (Continued)

Significance levels for $CM(Ref) - V$ Sequential test for $n = 35$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01010	.02020	.03032	.04036	.05040	.06060	.07070	.08076	.09088	.10100	.11118	.12130	.13146	.14148	.15154	.16166	.17176	.18180	.19186
0.02	.01004	.01912	.02840	.03802	.04754	.05728	.06710	.07674	.08658	.09656	.10646	.11644	.12642	.13642	.14634	.15622	.16610	.17596	.18592	.19588
0.03	.02912	.02820	.03692	.04614	.05510	.06448	.07384	.08314	.09274	.10254	.11226	.12202	.13170	.14154	.15122	.16090	.17070	.18046	.19034	.20020
0.04	.03022	.03728	.04536	.05394	.06250	.07158	.08050	.08956	.09896	.10858	.11818	.12786	.13722	.14684	.15630	.16574	.17548	.18502	.19474	.20442
0.05	.04032	.04664	.05412	.06192	.07012	.07880	.08738	.09608	.10530	.11458	.12396	.13340	.14260	.15206	.16138	.17058	.18016	.18946	.19908	.20864
0.06	.05042	.05606	.06278	.07012	.07784	.08598	.09432	.10258	.11146	.12050	.12962	.13886	.14788	.15714	.16630	.17536	.18482	.19398	.20348	.21300
0.07	.06048	.06566	.07194	.07872	.08600	.09386	.10182	.10980	.11838	.12716	.13610	.14514	.15398	.16298	.17202	.18092	.19022	.19926	.20866	.21802
0.08	.07056	.07538	.08110	.08742	.09422	.10178	.10940	.11700	.12540	.13392	.14252	.15128	.15996	.16872	.17760	.18632	.19548	.20436	.21364	.22280
0.09	.08076	.08522	.09032	.09608	.10254	.10992	.11722	.12456	.13268	.14088	.14904	.15762	.16612	.17466	.18330	.19188	.20088	.20964	.21870	.22774
0.10	.09084	.09486	.09958	.10500	.11104	.11794	.12484	.13198	.13980	.14773	.15574	.16408	.17240	.18062	.18914	.19752	.20628	.21488	.22378	.23260
0.11	.10094	.10448	.10880	.11384	.11956	.12620	.13260	.13946	.14706	.15472	.16248	.17060	.17872	.18678	.19506	.20316	.21158	.22004	.22886	.23748
0.12	.11110	.11434	.11810	.12280	.12812	.13456	.14044	.14696	.15426	.16170	.16920	.17714	.18508	.19296	.20094	.20884	.21704	.22542	.23410	.24254
0.13	.12120	.12414	.12754	.13198	.13680	.14290	.14830	.15456	.16162	.16880	.17612	.18382	.19160	.19922	.20700	.21478	.22280	.23094	.23948	.24774
0.14	.13124	.13382	.13684	.14092	.14554	.15134	.15638	.16222	.16914	.17598	.18306	.19042	.19800	.20540	.21298	.22058	.22858	.23644	.24480	.25288
0.15	.14140	.14384	.14668	.15042	.15474	.16020	.16494	.17042	.17702	.18340	.19024	.19740	.20484	.21194	.21940	.22672	.23440	.24222	.25038	.25832
0.16	.15148	.15366	.15624	.15960	.16360	.16870	.17324	.17862	.18486	.19096	.19766	.20458	.21172	.21868	.22590	.23300	.24058	.24828	.25632	.26418
0.17	.16158	.16354	.16598	.16898	.17268	.17746	.18170	.18674	.19274	.19856	.20506	.21172	.21854	.22530	.23232	.23910	.24654	.25400	.26192	.26956
0.18	.17166	.17338	.17568	.17854	.18188	.18636	.19030	.19504	.20078	.20634	.21258	.21908	.22556	.23214	.23904	.24560	.25276	.26008	.26780	.27528
0.19	.18174	.18332	.18544	.18794	.19100	.19528	.19890	.20338	.20876	.21408	.22004	.22624	.23252	.23878	.24552	.25194	.25904	.26608	.27360	.28092
0.20	.19188	.19326	.19526	.19750	.20036	.20436	.20782	.21216	.21730	.22244	.22818	.23404	.23992	.24594	.25254	.25870	.26572	.27262	.28004	.28726

Significance levels for $CM(Ref) - V$ Sequential test for $n = 40$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02016	.03020	.04030	.05038	.06052	.07056	.08070	.09080	.10094	.11108	.12116	.13134	.14152	.15162	.16168	.17176	.18184	.19192
0.02	.01014	.01928	.02868	.03828	.04796	.05756	.06740	.07710	.08698	.09694	.10682	.11674	.12666	.13676	.14672	.15670	.16666	.17668	.18666	.19658
0.03	.02026	.02840	.03700	.04598	.05514	.06438	.07380	.08328	.09280	.10262	.11222	.12182	.13162	.14150	.15130	.16114	.17100	.18090	.19076	.20058
0.04	.03036	.03778	.04558	.05398	.06270	.07164	.08076	.08994	.09922	.10884	.11818	.12752	.13720	.14688	.15646	.16606	.17586	.18554	.19530	.20498
0.05	.04046	.04708	.05416	.06212	.07050	.07898	.08778	.09660	.10560	.11492	.12410	.13326	.14276	.15224	.16162	.17112	.18068	.19018	.19982	.20936
0.06	.05052	.05628	.06284	.07012	.07806	.08616	.09470	.10318	.11196	.12088	.12976	.13866	.14800	.15720	.16648	.17576	.18512	.19436	.20382	.21316
0.07	.06064	.06580	.07192	.07870	.08624	.09388	.10218	.11032	.11886	.12748	.13610	.14494	.15402	.16292	.17206	.18112	.19030	.19932	.20856	.21776
0.08	.07074	.07524	.08064	.08690	.09418	.10158	.10954	.11740	.12562	.13402	.14248	.15120	.16006	.16882	.17774	.18666	.19576	.20460	.21366	.22272
0.09	.08082	.08500	.09002	.09590	.10278	.10958	.11704	.12474	.13248	.14066	.14892	.15722	.16594	.17482	.18312	.19176	.20076	.20950	.21826	.22712
0.10	.09088	.09458	.09924	.10474	.11130	.11774	.12474	.13206	.13952	.14740	.15548	.16350	.17200	.18038	.18878	.19722	.20604	.21462	.22326	.23192
0.11	.10098	.10432	.10862	.11376	.11986	.12604	.13272	.13968	.14694	.15436	.16216	.16984	.17816	.18654	.19438	.20260	.21124	.21952	.22802	.23656
0.12	.11110	.11426	.11804	.12276	.12848	.13436	.14068	.14732	.15428	.16138	.16892	.17636	.18442	.19238	.20018	.20824	.21678	.22496	.23324	.24160
0.13	.12118	.12396	.12740	.13176	.13704	.14264	.14872	.15510	.16176	.16858	.17586	.18310	.19090	.19870	.20634	.21428	.22268	.23072	.23888	.24708
0.14	.13132	.13392	.13706	.14102	.14592	.15112	.15676	.16288	.16912	.17576	.18280	.18978	.19734	.20484	.21228	.22006	.22826	.23614	.24410	.25218
0.15	.14148	.14378	.14658	.15022	.15478	.15972	.16512	.17096	.17698	.18342	.19016	.19694	.20418	.21142	.21874	.22644	.23458	.24228	.25012	.25800
0.16	.15158	.15364	.15618	.15954	.16384	.16844	.17360	.17916	.18498	.19126	.19778	.20444	.21144	.21856	.22570	.23324	.24108	.24860	.25616	.26394
0.17	.16170	.16370	.16600	.16910	.17308	.17750	.18248	.18776	.19326	.19910	.20534	.21158	.21846	.22536	.23234	.23968	.24736	.25474	.26196	.26952
0.18	.17184	.17372	.17584	.17874	.18252	.18668	.19128	.19634	.20164	.20724	.21334	.21926	.22588	.23250	.23924	.24632	.25374	.26084	.26788	.27528
0.19	.18192	.18366	.18558	.18832	.19176	.19572	.20008	.20486	.20984	.21522	.22106	.22670	.23306	.23956	.24592	.25278	.25996	.26684	.27362	.28102
0.20	.19198	.19362	.19536	.19792	.20106	.20472	.20876	.21326	.21796	.22314	.22880	.23412	.24018	.24636	.25256	.25920	.26624	.27296	.27976	.28674

Table 5.8 (Continued)

Significance levels for $CM(Ref) - V$ Sequential test for $n = 45$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01012	.02022	.03036	.04048	.05052	.06070	.07074	.08082	.09092	.10098	.11108	.12112	.13120	.14124	.15134	.16154	.17162	.18168	.19176
0.02	.01010	.01916	.02838	.03798	.04760	.05730	.06730	.07712	.08692	.09664	.10650	.11642	.12626	.13616	.14608	.15598	.16608	.17608	.18600	.19596
0.03	.02022	.02808	.03660	.04560	.05476	.06408	.07372	.08332	.09290	.10240	.11204	.12174	.13150	.14120	.15098	.16076	.17074	.18056	.19040	.20026
0.04	.03032	.03728	.04512	.05354	.06210	.07108	.08038	.08986	.09922	.10838	.11780	.12730	.13688	.14634	.15590	.16556	.17536	.18506	.19472	.20448
0.05	.04038	.04656	.05364	.06160	.06976	.07838	.08728	.09650	.10562	.11462	.12376	.13308	.14246	.15176	.16118	.17064	.18024	.18982	.19936	.20894
0.06	.05050	.05594	.06236	.06974	.07750	.08564	.09410	.10286	.11178	.12044	.12936	.13844	.14776	.15682	.16610	.17538	.18486	.19426	.20368	.21314
0.07	.06060	.06542	.07132	.07820	.08558	.09334	.10132	.10974	.11844	.12686	.13560	.14440	.15348	.16234	.17154	.18060	.18994	.19918	.20846	.21772
0.08	.07078	.07508	.08030	.08656	.09358	.10108	.10866	.11666	.12514	.13330	.14182	.15032	.15920	.16792	.17682	.18568	.19484	.20394	.21306	.22218
0.09	.08086	.08482	.08966	.09548	.10208	.10924	.11646	.12414	.13230	.14020	.14844	.15672	.16534	.17374	.18232	.19100	.19998	.20886	.21782	.22686
0.10	.09098	.09444	.09880	.10406	.11024	.11714	.12416	.13160	.13942	.14706	.15516	.16328	.17162	.17966	.18804	.19650	.20528	.21376	.22258	.23146
0.11	.10114	.10426	.10816	.11298	.11880	.12516	.13184	.13906	.14668	.15410	.16200	.16984	.17800	.18572	.19394	.20206	.21060	.21888	.22756	.23628
0.12	.11120	.11402	.11768	.12214	.12764	.13360	.13990	.14672	.15404	.16124	.16886	.17638	.18438	.19190	.19994	.20794	.21634	.22448	.23290	.24144
0.13	.12124	.12380	.12716	.13128	.13660	.14230	.14814	.15466	.16166	.16886	.17604	.18328	.19108	.19848	.20630	.21402	.22220	.23018	.23850	.24685
0.14	.13132	.13366	.13682	.14058	.14554	.15098	.15658	.16282	.16948	.17600	.18318	.19014	.19768	.20496	.21258	.22004	.22796	.23572	.24360	.25210
0.15	.14140	.14358	.14658	.15018	.15490	.15996	.16530	.17122	.17756	.18382	.19070	.19744	.20472	.21178	.21926	.22662	.23434	.24182	.24966	.25778
0.16	.15150	.15342	.15608	.15944	.16390	.16864	.17374	.17936	.18542	.19142	.19796	.20450	.21156	.21836	.22566	.23286	.24030	.24762	.25528	.26326
0.17	.16162	.16328	.16568	.16882	.17304	.17742	.18216	.18756	.19340	.19916	.20542	.21176	.21858	.22516	.23232	.23934	.24664	.25384	.26130	.26904
0.18	.17168	.17320	.17532	.17810	.18200	.18616	.19068	.19590	.20148	.20706	.21308	.21910	.22580	.23220	.23906	.24596	.25302	.26002	.26742	.27492
0.19	.18174	.18312	.18512	.18770	.19132	.19522	.19932	.20420	.20954	.21496	.22076	.22652	.23294	.23922	.24594	.25270	.25948	.26630	.27352	.28092
0.20	.19174	.19304	.19488	.19712	.20052	.20416	.20804	.21276	.21786	.22304	.22864	.23422	.24048	.24654	.25308	.25964	.26620	.27286	.27994	.28716

Significance levels for $CM(Ref) - V$ Sequential test for $n = 50$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01014	.02022	.03026	.04038	.05046	.06056	.07056	.08076	.09084	.10092	.11096	.12114	.13124	.14138	.15148	.16168	.17174	.18178	.19188
0.02	.01012	.01910	.02862	.03826	.04780	.05748	.06716	.07702	.08688	.09680	.10666	.11646	.12644	.13640	.14640	.15632	.16636	.17628	.18614	.19610
0.03	.02014	.02800	.03674	.04590	.05502	.06434	.07382	.08344	.09304	.10270	.11228	.12188	.13158	.14140	.15126	.16096	.17090	.18074	.19048	.20030
0.04	.03020	.03716	.04534	.05386	.06258	.07156	.08064	.08998	.09938	.10878	.11818	.12758	.13714	.14682	.15650	.16604	.17580	.18544	.19502	.20470
0.05	.04028	.04644	.05398	.06194	.07028	.07888	.08758	.09656	.10568	.11490	.12408	.13312	.14256	.15210	.16160	.17104	.18070	.19016	.19960	.20920
0.06	.05042	.05594	.06290	.07032	.07834	.08652	.09484	.10358	.11250	.12142	.13036	.13924	.14850	.15776	.16698	.17624	.18576	.19506	.20432	.21388
0.07	.06052	.06546	.07200	.07864	.08618	.09408	.10218	.11048	.11912	.12782	.13648	.14512	.15396	.16294	.17194	.18102	.19038	.19956	.20886	.21818
0.08	.07062	.07488	.08094	.08710	.09424	.10160	.10932	.11740	.12582	.13428	.14280	.15120	.15982	.16882	.17726	.18620	.19544	.20448	.21342	.22284
0.09	.08082	.08460	.08990	.09556	.10228	.10934	.11674	.12450	.13260	.14076	.14904	.15730	.16570	.17426	.18276	.19160	.20070	.20962	.21842	.22776
0.10	.09092	.09428	.09924	.10452	.11080	.11752	.12462	.13214	.13990	.14774	.15570	.16370	.17192	.18026	.18846	.19706	.20598	.21476	.22334	.23256
0.11	.10108	.10404	.10852	.11346	.11936	.12572	.13244	.13966	.14720	.15482	.16248	.17022	.17814	.18638	.19446	.20284	.21150	.22020	.22856	.23750
0.12	.11114	.11382	.11786	.12238	.12782	.13366	.14008	.14700	.15444	.16176	.16916	.17664	.18440	.19248	.20042	.20864	.21704	.22542	.23364	.24244
0.13	.12122	.12360	.12732	.13154	.13654	.14200	.14814	.15488	.16196	.16908	.17626	.18348	.19104	.19890	.20662	.21462	.22278	.23090	.23900	.24770
0.14	.13126	.13338	.13684	.14074	.14538	.15038	.15630	.16284	.16956	.17644	.18344	.19044	.19772	.20538	.21294	.22072	.22856	.23650	.24438	.25290
0.15	.14134	.14330	.14644	.14988	.15420	.15888	.16460	.17088	.17720	.18372	.19058	.19736	.20440	.21178	.21902	.22644	.23408	.24182	.24960	.25792
0.16	.15144	.15320	.15602	.15924	.16346	.16786	.17328	.17932	.18534	.19160	.19806	.20474	.21156	.21870	.22588	.23256	.23960	.24680	.25426	.26216
0.17	.16152	.16320	.16576	.16880	.17276	.17692	.18184	.18752	.19326	.19928	.20552	.21210	.21866	.22568	.23250	.23960	.24684	.25426	.26180	.26944
0.18	.17160	.17306	.17542	.17818	.18188	.18584	.19028	.19576	.20128	.20706	.21316	.21958	.22600	.23278	.23948	.24636	.25336	.26060	.26778	.27542
0.19	.18164	.18286	.18496	.18754	.19100	.19472	.19890	.20414	.20946	.21496	.22066	.22680	.23296	.23954	.24596	.25272	.25954	.26656	.27356	.28108
0.20	.19172	.19288	.19488	.19712	.20032	.20384	.20772	.21272	.21766	.22294	.22840	.23436	.24030	.24666	.25286	.25942	.26606	.27284	.27978	.28712

Table 5.8 (Continued)

Significance levels for $KS-V$ Sequential test for $n = 5$

$KS\,\alpha$ / $V\,\alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01012	.02018	.03024	.04028	.05034	.06042	.07050	.08058	.09062	.10084	.11092	.12100	.13114	.14120	.15134	.16148	.17154	.18176	.19184
0.02	.01014	.01986	.02950	.03920	.04898	.05878	.06852	.07832	.08816	.09800	.10804	.11796	.12788	.13788	.14776	.15770	.16763	.17754	.18750	.19742
0.03	.02028	.02966	.03892	.04828	.05774	.06736	.07682	.08648	.09614	.10580	.11570	.12546	.13522	.14516	.15498	.16476	.17452	.18428	.19410	.20346
0.04	.03050	.03948	.04822	.05722	.06642	.07578	.08506	.09448	.10392	.11340	.12314	.13278	.14232	.15208	.16168	.17126	.18070	.19034	.20004	.20952
0.05	.04060	.04910	.05750	.06620	.07514	.08436	.09360	.10276	.11188	.12124	.13070	.14024	.14956	.15906	.16854	.17792	.18726	.19674	.20626	.21556
0.06	.05070	.05888	.06692	.07534	.08404	.09296	.10194	.11094	.11988	.12904	.13824	.14758	.15680	.16584	.17514	.18440	.19360	.20286	.21214	.22128
0.07	.06076	.06850	.07624	.08442	.09284	.10150	.11036	.11914	.12796	.13696	.14592	.15520	.16410	.17310	.18224	.19130	.20032	.20942	.21856	.22762
0.08	.07082	.07816	.08562	.09366	.10178	.11026	.11898	.12760	.13626	.14600	.15582	.16296	.17174	.18058	.18958	.19852	.20728	.21618	.22508	.23402
0.09	.08090	.08784	.09504	.10280	.11048	.11874	.12724	.13566	.14416	.15276	.16140	.17038	.17888	.18760	.19654	.20536	.21398	.22272	.23144	.24028
0.10	.09100	.09738	.10436	.11192	.11942	.12748	.13572	.14402	.15228	.16064	.16916	.17798	.18630	.19496	.20362	.21234	.22080	.22942	.25796	.24660
0.11	.10120	.10718	.11386	.12124	.12846	.13636	.14438	.15234	.16040	.16856	.17690	.18554	.19378	.20232	.21074	.21932	.22764	.23612	.24452	.25300
0.12	.11132	.11692	.12328	.13030	.13736	.14496	.15260	.16058	.16838	.17636	.18450	.19300	.20108	.20926	.21764	.22600	.23426	.24256	.25080	.25916
0.13	.12144	.12656	.13242	.13912	.14594	.15328	.16090	.16858	.17628	.18400	.19196	.20032	.20818	.21622	.22446	.23268	.24098	.24904	.25714	.26530
0.14	.13156	.13646	.14194	.14826	.15484	.16202	.16942	.17698	.18450	.19196	.19976	.20796	.21568	.22366	.23172	.23978	.24784	.25588	.26376	.27178
0.15	.14168	.14624	.15148	.15754	.16386	.17078	.17794	.18534	.19280	.19996	.20756	.21564	.22330	.23122	.23904	.24694	.25490	.26284	.27048	.27824
0.16	.15174	.15592	.16092	.16680	.17296	.17960	.18666	.19372	.20078	.20796	.21544	.22338	.23082	.23850	.24620	.25400	.26176	.26956	.27702	.28454
0.17	.16180	.16556	.17030	.17596	.18184	.18834	.19514	.20208	.20902	.21600	.22340	.23100	.23834	.24584	.25336	.26102	.26856	.27602	.28328	.29068
0.18	.17190	.17522	.17972	.18516	.19070	.19684	.20340	.21012	.21680	.22366	.23082	.23824	.24638	.25270	.26010	.26764	.27502	.28244	.28958	.29684
0.19	.18200	.18492	.18916	.19420	.19968	.20544	.21188	.21844	.22496	.23162	.23852	.24578	.25278	.25990	.26706	.27456	.28190	.28916	.29608	.30320
0.20	.19210	.19468	.19868	.20342	.20876	.21428	.22058	.22692	.23326	.23968	.24642	.25348	.26032	.26732	.27436	.28170	.28896	.29610	.30294	.30994

Significance levels for $KS-V$ Sequential test for $n = 10$

$KS\,\alpha$ / $V\,\alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01012	.02024	.03040	.04060	.05068	.06088	.07104	.08112	.09122	.10136	.11146	.12150	.13164	.14170	.15182	.16188	.17194	.18204	.19214
0.02	.01008	.01952	.02910	.03874	.04852	.05810	.06794	.07760	.08764	.09740	.10716	.11706	.12696	.13690	.14672	.15656	.16650	.17644	.18632	.19618
0.03	.02026	.02882	.03794	.04714	.05642	.06548	.07486	.08454	.09398	.10342	.11288	.12250	.13208	.14186	.15162	.16134	.17112	.18086	.19054	.20030
0.04	.03040	.03832	.04892	.05576	.06440	.07306	.08212	.09122	.10048	.10958	.11884	.12826	.13768	.14722	.15682	.16630	.17554	.18562	.19514	.20470
0.05	.04054	.04786	.05588	.06444	.07282	.08110	.08998	.09866	.10764	.11638	.12630	.13446	.14382	.15294	.16246	.17174	.18110	.19062	.19988	.20924
0.06	.05064	.05738	.06488	.07312	.08120	.08908	.09764	.10600	.11466	.12326	.13192	.14074	.14988	.15872	.16806	.17722	.18624	.19556	.20476	.21398
0.07	.06070	.06640	.07384	.08176	.08942	.09694	.10524	.11342	.12182	.13016	.13856	.14720	.15598	.16452	.17368	.18266	.19158	.20078	.20988	.21902
0.08	.07072	.07616	.08290	.09050	.09792	.10512	.11322	.12114	.12936	.13728	.14642	.15390	.16248	.17070	.17976	.18848	.19716	.20616	.21504	.22406
0.09	.08082	.08552	.09192	.09932	.10628	.11310	.12098	.12858	.13658	.14426	.15208	.16022	.16856	.17662	.18542	.19392	.20242	.21112	.21978	.22866
0.10	.09102	.09520	.10106	.10804	.11466	.12120	.12882	.13618	.14388	.15128	.15878	.16680	.17488	.18282	.19132	.19972	.20796	.21640	.22480	.23352
0.11	.10104	.10466	.10998	.11658	.12284	.12922	.13662	.14360	.15105	.15822	.16556	.17334	.18114	.18894	.19720	.20546	.21354	.22174	.22998	.23842
0.12	.11112	.11424	.11924	.12582	.13152	.13770	.14482	.15162	.15886	.16582	.17296	.18060	.18818	.19576	.20378	.21182	.21960	.22758	.23556	.24378
0.13	.12124	.12388	.12862	.13468	.14010	.14604	.15286	.15940	.16642	.17300	.17994	.18742	.19478	.20212	.20996	.21774	.22542	.23314	.24096	.24896
0.14	.13136	.13370	.13784	.14364	.14874	.15428	.16076	.16712	.17386	.18040	.18712	.19438	.20152	.20874	.21630	.22382	.23138	.23900	.24648	.25428
0.15	.14152	.14354	.14734	.15290	.15786	.16318	.16936	.17550	.18204	.18826	.19476	.20180	.20872	.21568	.22304	.23032	.23774	.24512	.25240	.25992
0.16	.15162	.15332	.15682	.16206	.16680	.17184	.17772	.18370	.18998	.19612	.20260	.20942	.21610	.22284	.23002	.23716	.24444	.25176	.25850	.26612
0.17	.16166	.16314	.16640	.17120	.17566	.18046	.18614	.19198	.19798	.20396	.21018	.21690	.22342	.22992	.23700	.24388	.25106	.25826	.26498	.27212
0.18	.17194	.17316	.17622	.18072	.18482	.18944	.19494	.20054	.20632	.21198	.21800	.22456	.23088	.23722	.24414	.25090	.25782	.26482	.27150	.27830
0.19	.18204	.18308	.18580	.19004	.19404	.19850	.20376	.20922	.21486	.22032	.22614	.23244	.23858	.24468	.25148	.25800	.26472	.27154	.27812	.28484
0.20	.19208	.19298	.19536	.19932	.20314	.20742	.21254	.21734	.22330	.22866	.23434	.24042	.24638	.25252	.25900	.26542	.27198	.27866	.28502	.29152

Table 5.9 Signiicance levels of $KS-V$ sequential test

Significance levels for $KS - V$ Sequential test for $n = 15$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02014	.03020	.04034	.05052	.06064	.07076	.08090	.09104	.10120	.11132	.12140	.13152	.14168	.15172	.16176	.17188	.18200	.19208
0.02	.01008	.01932	.02868	.03818	.04772	.05748	.06730	.07720	.08706	.09684	.10676	.11672	.12662	.13642	.14634	.15602	.16584	.17580	.18578	.19558
0.03	.02018	.02854	.03708	.04598	.05512	.06446	.07388	.08338	.09282	.10234	.11204	.12176	.13134	.14088	.15056	.16008	.16974	.17952	.18938	.19906
0.04	.03026	.03800	.04606	.05438	.06302	.07202	.08110	.09028	.09942	.10870	.11814	.12768	.13702	.14624	.15570	.16498	.17448	.18410	.19384	.20338
0.05	.04034	.04728	.05490	.06278	.07096	.07958	.08842	.09724	.10616	.11516	.12438	.13374	.14294	.15200	.16124	.17038	.17970	.18918	.19870	.20816
0.06	.05056	.05696	.06402	.07156	.07936	.08754	.09606	.10470	.11332	.12208	.13106	.14006	.14900	.15784	.16692	.17596	.18500	.19428	.20368	.21290
0.07	.06074	.06658	.07306	.08012	.08762	.09542	.10370	.11200	.12046	.12892	.13748	.14632	.15512	.16362	.17258	.18152	.19042	.19952	.20864	.21768
0.08	.07054	.07610	.08218	.08890	.09612	.10364	.11144	.11942	.12750	.13572	.14392	.15250	.16116	.16948	.17834	.18696	.19566	.20470	.21368	.22246
0.09	.08098	.08568	.09152	.09780	.10464	.11178	.11926	.12694	.13474	.14276	.15066	.15898	.16744	.17560	.18430	.19274	.20124	.21004	.21898	.22756
0.10	.09106	.09528	.10070	.10660	.11312	.11986	.12700	.13450	.14196	.14968	.15736	.16550	.17374	.18170	.19010	.19834	.20662	.21532	.22410	.23254
0.11	.10122	.10484	.10996	.11546	.12166	.12810	.13486	.14208	.14930	.15668	.16426	.17222	.18030	.18802	.19622	.20422	.21238	.22086	.22944	.23778
0.12	.11128	.11436	.11914	.12442	.13018	.13638	.14268	.14970	.15662	.16390	.17090	.17868	.18662	.19416	.20220	.21006	.21812	.22638	.23480	.24310
0.13	.12142	.12424	.12862	.13358	.13918	.14512	.15102	.15778	.16436	.17146	.17822	.18574	.19344	.20084	.20870	.21638	.22420	.23226	.24054	.24872
0.14	.13150	.13394	.13806	.14278	.14814	.15384	.15938	.16596	.17238	.17928	.18584	.19318	.20070	.20790	.21566	.22314	.23076	.23874	.24684	.25484
0.15	.14158	.14376	.14760	.15198	.15720	.16252	.16768	.17398	.18022	.18694	.19324	.20040	.20768	.21470	.22226	.22956	.23702	.24478	.25272	.26054
0.16	.15166	.15354	.15718	.16122	.16630	.17138	.17630	.18228	.18836	.19488	.20086	.20784	.21488	.22164	.22902	.23614	.24346	.25096	.25874	.26638
0.17	.16176	.16326	.16664	.17036	.17522	.18006	.18478	.19054	.19636	.20270	.20852	.21528	.22210	.22886	.23596	.24292	.25006	.25738	.26496	.27240
0.18	.17184	.17316	.17624	.17978	.18446	.18910	.19356	.19908	.20458	.21064	.21628	.22282	.22940	.23596	.24286	.24972	.25666	.26382	.27102	.27826
0.19	.18190	.18302	.18586	.18926	.19362	.19812	.20238	.20762	.21298	.21874	.22416	.23048	.23678	.24318	.24984	.25648	.26332	.27022	.27732	.28436
0.20	.19210	.19306	.19552	.19866	.20282	.20700	.21110	.21600	.22122	.22672	.23192	.23800	.24412	.25034	.25680	.26318	.26986	.27660	.28348	.29046

Significance levels for $KS - V$ Sequential test for $n = 20$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01004	.02018	.03028	.04042	.05052	.06060	.07068	.08080	.09082	.10090	.11096	.12102	.13118	.14130	.15136	.16144	.17156	.18164	.19178
0.02	.01012	.01926	.02882	.03826	.04792	.05760	.06734	.07710	.08694	.09674	.10672	.11660	.12636	.13630	.14618	.15600	.16596	.17588	.18580	.19566
0.03	.02022	.02838	.03718	.04616	.05544	.06484	.07416	.08346	.09308	.10258	.11234	.12200	.13148	.14120	.15092	.16062	.17044	.18012	.18984	.19944
0.04	.03034	.03778	.04600	.05452	.06344	.07238	.08130	.09022	.09980	.10868	.11824	.12774	.13692	.14644	.15608	.16586	.17520	.18460	.19408	.20352
0.05	.04040	.04722	.05484	.06278	.07118	.07986	.08846	.09708	.10606	.11498	.12438	.13370	.14262	.15188	.16132	.17060	.17992	.18908	.19834	.20760
0.06	.05054	.05666	.06362	.07106	.07918	.08748	.09580	.10412	.11282	.12156	.13070	.13978	.14888	.15756	.16682	.17582	.18490	.19384	.20280	.21190
0.07	.06064	.06614	.07256	.07954	.08728	.09534	.10342	.11152	.11992	.12822	.13696	.14586	.15450	.16332	.17240	.18114	.19004	.19874	.20752	.21644
0.08	.07078	.07578	.08178	.08838	.09572	.10352	.11128	.11920	.12724	.13532	.14390	.15258	.16092	.16986	.17846	.18704	.19578	.20436	.21260	.22154
0.09	.08086	.08550	.09116	.09752	.10464	.11206	.11958	.12738	.13498	.14276	.15110	.15948	.16774	.17634	.18492	.19332	.20188	.21030	.21866	.22716
0.10	.09096	.09514	.10032	.10626	.11306	.12012	.12726	.13482	.14226	.14992	.15814	.16634	.17448	.18286	.19126	.19948	.20786	.21616	.22442	.23274
0.11	.10112	.10492	.10972	.11536	.12182	.12864	.13534	.14268	.14986	.15736	.16542	.17342	.18138	.18966	.19790	.20588	.21396	.22206	.23010	.23826
0.12	.11126	.11460	.11910	.12450	.13066	.13724	.14352	.15060	.15766	.16468	.17246	.18020	.18790	.19602	.20414	.21192	.21980	.22762	.23564	.24342
0.13	.12138	.12440	.12850	.13352	.13928	.14558	.15168	.15852	.16528	.17212	.17962	.18712	.19462	.20264	.21052	.21806	.22580	.23352	.24118	.24900
0.14	.13148	.13416	.13786	.14270	.14816	.15414	.15992	.16650	.17302	.17968	.18688	.19422	.20146	.20930	.21706	.22444	.23206	.23970	.24726	.25500
0.15	.14158	.14392	.14730	.15190	.15710	.16270	.16828	.17466	.18096	.18736	.19446	.20150	.20866	.21642	.22396	.23116	.23862	.24600	.25348	.26104
0.16	.15154	.15366	.15670	.16110	.16608	.17140	.17672	.18286	.18882	.19494	.20194	.20872	.21562	.22320	.23046	.23758	.24480	.25192	.25928	.26670
0.17	.16166	.16352	.16632	.17056	.17530	.18042	.18554	.19144	.19722	.20312	.20986	.21648	.22324	.23054	.23762	.24456	.25168	.25860	.26580	.27300
0.18	.17182	.17330	.17578	.17968	.18418	.18902	.19398	.19976	.20520	.21086	.21742	.22392	.23046	.23742	.24422	.25104	.25804	.26486	.27192	.27904
0.19	.18194	.18330	.18562	.18928	.19362	.19820	.20284	.20838	.21364	.21904	.22526	.23152	.23792	.24462	.25118	.25778	.26462	.27128	.27818	.28508
0.20	.19210	.19328	.19534	.19880	.20292	.20726	.21170	.21706	.22210	.22738	.23344	.23944	.24568	.25222	.25862	.26506	.27166	.27816	.28488	.29168

Table 5.9 (Continued)

Significance levels for $KS - V$ Sequential test for $n = 25$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02020	.03030	.04038	.05054	.06056	.07062	.08076	.09098	.10102	.11116	.12124	.13132	.14138	.15140	.16146	.17150	.18162	.19176
0.02	.01006	.01944	.02900	.03872	.04840	.05800	.06774	.07744	.08720	.09708	.10686	.11682	.12680	.13652	.14640	.15612	.16600	.17600	.18584	.19570
0.03	.02008	.02866	.03776	.04702	.05626	.06548	.07468	.08406	.09352	.10316	.11278	.12244	.13224	.14162	.15122	.16062	.17034	.18020	.18992	.19958
0.04	.03018	.03784	.04634	.05510	.06396	.07274	.08166	.09072	.09990	.10920	.11864	.12810	.13756	.14678	.15610	.16536	.17490	.18464	.19412	.20366
0.05	.04032	.04732	.05538	.06386	.07234	.08070	.08924	.09800	.10694	.11602	.12522	.13430	.14344	.15252	.16166	.17080	.18008	.18956	.19896	.20820
0.06	.05042	.05674	.06412	.07216	.08014	.08822	.09652	.10512	.11388	.12276	.13172	.14058	.14952	.15824	.16716	.17604	.18518	.19446	.20358	.21274
0.07	.06050	.06644	.07326	.08082	.08846	.09636	.10430	.11254	.12106	.12964	.13842	.14704	.15570	.16418	.17290	.18152	.19052	.19966	.20862	.21754
0.08	.07066	.07610	.08244	.08946	.09670	.10422	.11200	.12010	.12836	.13662	.14528	.15364	.16214	.17046	.17896	.18738	.19620	.20520	.21390	.22262
0.09	.08070	.08576	.09158	.09816	.10506	.11226	.11978	.12752	.13556	.14362	.15212	.16026	.16854	.17660	.18476	.19296	.20160	.21050	.21910	.22756
0.10	.09076	.09518	.10048	.10676	.11336	.12012	.12736	.13486	.14272	.15054	.15872	.16664	.17466	.18240	.19040	.19850	.20694	.21562	.22398	.23238
0.11	.10084	.10486	.10960	.11572	.12200	.12838	.13532	.14264	.15032	.15792	.16598	.17378	.18160	.18922	.19704	.20494	.21316	.22166	.22982	.23804
0.12	.11096	.11460	.11930	.12492	.13076	.13692	.14348	.15058	.15808	.16540	.17322	.18074	.18834	.19582	.20346	.21116	.21920	.22748	.23554	.24370
0.13	.12098	.12414	.12856	.13362	.13922	.14514	.15142	.15828	.16560	.17264	.18014	.18740	.19480	.20212	.20956	.21710	.22484	.23292	.24084	.24886
0.14	.13108	.13392	.13808	.14284	.14800	.15352	.15942	.16618	.17326	.18014	.18754	.19472	.20186	.20898	.21630	.22370	.23114	.23906	.24688	.25472
0.15	.14104	.14356	.14726	.15176	.15674	.16202	.16762	.17416	.18112	.18784	.19504	.20212	.20906	.21606	.22310	.23034	.23766	.24538	.25304	.26074
0.16	.15120	.15322	.15658	.16074	.16550	.17056	.17586	.18204	.18878	.19532	.20232	.20920	.21594	.22276	.22954	.23672	.24390	.25114	.25892	.26646
0.17	.16132	.16286	.16604	.16994	.17438	.17906	.18410	.19012	.19660	.20284	.20974	.21642	.22294	.22946	.23604	.24300	.25002	.25734	.26462	.27202
0.18	.17138	.17278	.17564	.17920	.18352	.18798	.19276	.19852	.20476	.21072	.21736	.22382	.23014	.23650	.24296	.24972	.25656	.26378	.27092	.27818
0.19	.18148	.18268	.18530	.18856	.19272	.19698	.20162	.20726	.21316	.21878	.22534	.23160	.23766	.24384	.25016	.25676	.26336	.27038	.27736	.28438
0.20	.19152	.19262	.19496	.19794	.20186	.20598	.21044	.21594	.22166	.22710	.23344	.23952	.24546	.25144	.25760	.26404	.27046	.27726	.28416	.29102

Significance levels for $KS - V$ Sequential test for $n = 30$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01018	.02024	.03030	.04038	.05054	.06062	.07076	.08086	.09108	.10126	.11138	.12148	.13156	.14164	.15170	.16182	.17200	.18212	.19220
0.02	.01010	.01948	.02894	.03854	.04816	.05786	.06756	.07738	.08720	.09700	.10690	.11690	.12676	.13664	.14646	.15630	.16618	.17610	.18608	.19600
0.03	.02026	.02896	.03784	.04702	.05638	.06566	.07496	.08434	.09388	.10330	.11294	.12264	.13222	.14190	.15154	.16112	.17084	.18054	.19026	.20000
0.04	.03028	.03812	.04640	.05508	.06404	.07296	.08192	.09102	.10040	.10956	.11894	.12840	.13768	.14718	.15676	.16618	.17562	.18506	.19458	.20406
0.05	.04040	.04748	.05524	.06354	.07184	.08060	.08928	.09806	.10718	.11618	.12530	.13452	.14362	.15286	.16218	.17140	.18056	.18968	.19910	.20838
0.06	.05052	.05684	.06396	.07176	.07964	.08788	.09626	.10470	.11346	.12220	.13108	.14002	.14892	.15796	.16712	.17618	.18520	.19420	.20344	.21254
0.07	.06058	.06628	.07308	.08054	.08812	.09598	.10396	.11220	.12072	.12910	.13782	.14652	.15518	.16394	.17280	.18166	.19048	.19928	.20826	.21722
0.08	.07066	.07580	.08216	.08930	.09654	.10406	.11176	.11976	.12786	.13594	.14444	.15286	.16120	.16976	.17852	.18720	.19570	.20428	.21316	.22200
0.09	.08076	.08558	.09138	.09810	.10506	.11234	.11982	.12758	.13544	.14334	.15146	.15970	.16772	.17612	.18464	.19312	.20136	.20966	.21830	.22698
0.10	.09082	.09520	.10070	.10708	.11384	.12084	.12798	.13550	.14320	.15088	.15884	.16678	.17460	.18276	.19110	.19944	.20748	.21586	.22410	.23252
0.11	.10096	.10486	.10998	.11596	.12238	.12916	.13602	.14328	.15062	.15808	.16578	.17346	.18090	.18826	.19604	.20394	.21192	.21958	.22742	.23540
0.12	.11100	.11460	.11954	.12520	.13136	.13784	.14450	.15166	.15876	.16592	.17346	.18090	.18826	.19604	.20394	.21192	.21958	.22742	.23540	.24336
0.13	.12108	.12440	.12908	.13444	.14028	.14640	.15284	.15966	.16652	.17344	.18060	.18768	.19478	.20232	.21006	.21792	.22528	.23294	.24084	.24866
0.14	.13120	.13414	.13846	.14330	.14892	.15482	.16106	.16772	.17434	.18100	.18798	.19500	.20186	.20916	.21678	.22456	.23176	.23922	.24688	.25448
0.15	.14126	.14390	.14810	.15268	.15804	.16374	.16964	.17612	.18256	.18904	.19576	.20252	.20924	.21632	.22376	.23140	.23848	.24558	.25300	.26050
0.16	.15138	.15368	.15758	.16198	.16704	.17246	.17808	.18436	.19052	.19678	.20332	.20986	.21644	.22336	.23056	.23792	.24496	.25144	.25806	.26524
0.17	.16152	.16352	.16714	.17128	.17608	.18122	.18652	.19252	.19848	.20458	.21098	.21734	.22374	.23048	.23748	.24466	.25144	.25802	.26446	.27136
0.18	.17166	.17338	.17668	.18054	.18504	.18988	.19494	.20070	.20652	.21248	.21868	.22488	.23114	.23758	.24442	.25142	.25820	.26468	.27100	.27782
0.19	.18178	.18334	.18634	.18994	.19418	.19868	.20354	.20890	.21454	.22034	.22626	.23232	.23846	.24468	.25132	.25820	.26482	.27126	.27754	.28400
0.20	.19184	.19322	.19596	.19930	.20322	.20740	.21210	.21724	.22266	.22830	.23396	.23978	.24570	.25170	.25820	.26482	.27126	.27754	.28400	.29070

Table 5.9 (Continued)

Significance levels for $KS - V$ Sequential test for $n = 35$

$KS\,a$ / $V\,a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02018	.03022	.04026	.05036	.06040	.07062	.08070	.09086	.10100	.11104	.12118	.13132	.14140	.15152	.16162	.17168	.18184	.19190
0.02	.01004	.01916	.02858	.03816	.04774	.05754	.06714	.07706	.08694	.09658	.10648	.11632	.12610	.13594	.14568	.15566	.16558	.17556	.18556	.19548
0.03	.02012	.02852	.03724	.04610	.05544	.06490	.07426	.08378	.09332	.10278	.11242	.12210	.13146	.14108	.15054	.16024	.16998	.17980	.18964	.19940
0.04	.03022	.03774	.04604	.05442	.06336	.07236	.08146	.09064	.10000	.10900	.11842	.12786	.13692	.14614	.15552	.16506	.17472	.18430	.19392	.20338
0.05	.04032	.04736	.05502	.06314	.07158	.08030	.08914	.09798	.10706	.11584	.12506	.13422	.14308	.15204	.16114	.17050	.17990	.18920	.19854	.20794
0.06	.05042	.05668	.06398	.07162	.07968	.08814	.09666	.10518	.11398	.12252	.13150	.14044	.14910	.15782	.16670	.17588	.18498	.19412	.20326	.21252
0.07	.06048	.06622	.07294	.08004	.08772	.09562	.10380	.11206	.12052	.12888	.13754	.14634	.15470	.16322	.17194	.18098	.18992	.19872	.20770	.21680
0.08	.07056	.07578	.08192	.08874	.09608	.10360	.11146	.11936	.12760	.13570	.14416	.15272	.16084	.16914	.17762	.18640	.19514	.20378	.21258	.22146
0.09	.08076	.08548	.09120	.09764	.10460	.11184	.11924	.12696	.13500	.14282	.15102	.15934	.16722	.17538	.18378	.19232	.20090	.20924	.21790	.22656
0.10	.09084	.09512	.10040	.10648	.11318	.12006	.12724	.13480	.14256	.15016	.15804	.16618	.17384	.18180	.19000	.19834	.20682	.21496	.22346	.23192
0.11	.10094	.10482	.10968	.11534	.12172	.12836	.13524	.14258	.15008	.15748	.16504	.17292	.18038	.18814	.19608	.20412	.21242	.22048	.22882	.23716
0.12	.11110	.11450	.11906	.12430	.13034	.13684	.14350	.15060	.15792	.16502	.17234	.18002	.18734	.19488	.20262	.21040	.21852	.22624	.23448	.24262
0.13	.12120	.12434	.12868	.13360	.13938	.14564	.15202	.15894	.16602	.17266	.17976	.18724	.19436	.20162	.20922	.21678	.22466	.23232	.24028	.24818
0.14	.13124	.13412	.13818	.14276	.14816	.15394	.16002	.16664	.17346	.17984	.18676	.19406	.20106	.20814	.21556	.22296	.23056	.23804	.24594	.25370
0.15	.14140	.14386	.14766	.15180	.15684	.16248	.16846	.17478	.18138	.18756	.19428	.20136	.20828	.21510	.22232	.22950	.23684	.24408	.25178	.25928
0.16	.15148	.15356	.15700	.16086	.16558	.17090	.17670	.18276	.18906	.19506	.20152	.20838	.21514	.22178	.22892	.23590	.24308	.25012	.25758	.26494
0.17	.16158	.16330	.16652	.17014	.17458	.17956	.18514	.19084	.19696	.20280	.20896	.21562	.22226	.22870	.23564	.24244	.24940	.25628	.26354	.27076
0.18	.17166	.17320	.17614	.17944	.18362	.18834	.19366	.19920	.20510	.21076	.21672	.22312	.22962	.23598	.24270	.24936	.25622	.26290	.27006	.27704
0.19	.18174	.18308	.18586	.18888	.19280	.19734	.20244	.20784	.21362	.21906	.22478	.23100	.23728	.24344	.25002	.25644	.26318	.26976	.27676	.28362
0.20	.19188	.19302	.19558	.19838	.20210	.20626	.21104	.21630	.22188	.22720	.23266	.23854	.24466	.25066	.25718	.26342	.26990	.27634	.28310	.28982

Significance levels for $KS - V$ Sequential test for $n = 40$

$KS\,a$ / $V\,a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02026	.03036	.04042	.05052	.06064	.07078	.08092	.09102	.10110	.11116	.12134	.13156	.14166	.15172	.16182	.17194	.18206	.19218
0.02	.01014	.01922	.02888	.03840	.04800	.05776	.06766	.07742	.08730	.09710	.10698	.11680	.12664	.13664	.14636	.15608	.16594	.17584	.18582	.19566
0.03	.02026	.02850	.03742	.04640	.05558	.06506	.07466	.08410	.09358	.10304	.11272	.12230	.13194	.14172	.15120	.16078	.17056	.18030	.18998	.19960
0.04	.03036	.03792	.04620	.05452	.06334	.07244	.08176	.09104	.10018	.10938	.11880	.12818	.13764	.14708	.15640	.16578	.17528	.18480	.19430	.20384
0.05	.04046	.04738	.05510	.06308	.07154	.08016	.08894	.09790	.10672	.11578	.12510	.13472	.14346	.15270	.16176	.17090	.18012	.18952	.19878	.20808
0.06	.05052	.05674	.06400	.07156	.07964	.08800	.09656	.10528	.11382	.12270	.13164	.14062	.14970	.15872	.16772	.17672	.18566	.19484	.20394	.21304
0.07	.06064	.06622	.07318	.08026	.08798	.09596	.10420	.11256	.12086	.12944	.13812	.14666	.15552	.16428	.17310	.18194	.19074	.19972	.20872	.21768
0.08	.07074	.07576	.08232	.08900	.09638	.10404	.11196	.12004	.12792	.13626	.14468	.15280	.16152	.17006	.17860	.18734	.19606	.20488	.21364	.22236
0.09	.08082	.08528	.09144	.09774	.10472	.11214	.11982	.12758	.13526	.14336	.15156	.15946	.16798	.17630	.18468	.19326	.20186	.21044	.21892	.22748
0.10	.09088	.09478	.10044	.10630	.11308	.12028	.12766	.13516	.14256	.15024	.15816	.16584	.17422	.18228	.19048	.19888	.20724	.21560	.22392	.23232
0.11	.10098	.10450	.10986	.11538	.12182	.12864	.13578	.14306	.15014	.15760	.16524	.17266	.18092	.18884	.19686	.20508	.21318	.22136	.22962	.23782
0.12	.11110	.11434	.11940	.12460	.13066	.13720	.14402	.15094	.15780	.16498	.17250	.17966	.18762	.19528	.20306	.21106	.21906	.22714	.23524	.24324
0.13	.12118	.12396	.12872	.13360	.13932	.14572	.15228	.15894	.16556	.17256	.17996	.18668	.19466	.20198	.20964	.21736	.22518	.23296	.24086	.24872
0.14	.13132	.13380	.13828	.14278	.14824	.15438	.16072	.16710	.17344	.18022	.18744	.19410	.20166	.20880	.21628	.22384	.23140	.23898	.24678	.25444
0.15	.14148	.14362	.14768	.15174	.15690	.16278	.16890	.17516	.18120	.18786	.19460	.20108	.20838	.21536	.22268	.23016	.23786	.24490	.25256	.26000
0.16	.15158	.15338	.15708	.16094	.16586	.17146	.17744	.18352	.18934	.19572	.20254	.20874	.21564	.22256	.22970	.23710	.24426	.25144	.25894	.26630
0.17	.16170	.16320	.16652	.17022	.17474	.18002	.18560	.19152	.19708	.20322	.20988	.21592	.22250	.22932	.23626	.24358	.25050	.25754	.26486	.27210
0.18	.17184	.17324	.17630	.17962	.18392	.18896	.19428	.19998	.20532	.21122	.21760	.22352	.22990	.23648	.24322	.25030	.25694	.26378	.27098	.27798
0.19	.18192	.18314	.18600	.18916	.19334	.19798	.20304	.20856	.21368	.21934	.22548	.23120	.23740	.24388	.25046	.25736	.26376	.27024	.27734	.28426
0.20	.19198	.19314	.19578	.19872	.20254	.20690	.21176	.21710	.22200	.22740	.23334	.23886	.24492	.25128	.25778	.26450	.27062	.27688	.28384	.29064

Table 5.9 (Continued)

Significance levels for $KS - V$ Sequential test for n = 45

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01004	.02016	.03034	.04042	.05044	.06056	.07074	.08082	.09090	.10104	.11106	.12108	.13120	.14134	.15148	.16156	.17168	.18172	.19176
0.02	.01010	.01938	.02898	.03880	.04844	.05818	.06772	.07764	.08738	.09720	.10704	.11680	.12662	.13650	.14632	.15614	.16588	.17564	.18574	.19562
0.03	.02022	.02880	.03786	.04706	.05634	.06568	.07490	.08448	.09384	.10330	.11290	.12240	.13196	.14160	.15124	.16080	.17026	.18010	.18990	.19964
0.04	.03032	.03828	.04672	.05530	.06418	.07300	.08194	.09130	.10040	.10960	.11886	.12800	.13734	.14684	.15622	.16550	.17482	.18436	.19406	.20362
0.05	.04038	.04764	.05558	.06372	.07218	.08064	.08910	.09802	.10682	.11578	.12480	.13372	.14292	.15222	.16134	.17038	.17946	.18874	.19820	.20758
0.06	.05050	.05728	.06484	.07238	.08034	.08854	.09668	.10524	.11368	.12238	.13118	.13994	.14882	.15782	.16678	.17570	.18460	.19360	.20294	.21204
0.07	.06060	.06682	.07386	.08096	.08860	.09650	.10440	.11274	.12088	.12936	.13782	.14636	.15498	.16382	.17256	.18136	.18992	.19874	.20786	.21682
0.08	.07078	.07634	.08300	.08992	.09724	.10490	.11240	.12032	.12826	.13636	.14446	.15284	.16108	.16974	.17814	.18646	.19490	.20352	.21240	.22116
0.09	.08086	.08592	.09200	.09848	.10534	.11268	.11992	.12750	.13516	.14292	.15076	.15894	.16694	.17540	.18352	.19158	.19986	.20826	.21692	.22544
0.10	.09098	.09546	.10110	.10728	.11380	.12084	.12776	.13514	.14258	.15010	.15770	.16568	.17340	.18168	.18964	.19744	.20552	.21366	.22214	.23052
0.11	.10114	.10512	.11032	.11618	.12220	.12900	.13574	.14276	.14998	.15720	.16458	.17230	.17980	.18798	.19574	.20342	.21136	.21934	.22758	.23576
0.12	.11120	.11480	.11968	.12514	.13080	.13736	.14374	.15052	.15740	.16442	.17154	.17904	.18628	.19410	.20178	.20936	.21710	.22484	.23292	.24088
0.13	.12124	.12454	.12902	.13406	.13934	.14562	.15168	.15822	.16486	.17156	.17846	.18574	.19260	.20022	.20776	.21510	.22266	.23026	.23808	.24588
0.14	.13132	.13416	.13844	.14314	.14818	.15430	.16008	.16654	.17228	.17930	.18590	.19296	.19968	.20704	.21440	.22160	.22894	.23642	.24402	.25158
0.15	.14140	.14384	.14762	.15188	.15668	.16240	.16800	.17412	.18030	.18660	.19304	.19992	.20648	.21362	.22080	.22792	.23500	.24234	.24972	.25716
0.16	.15150	.15362	.15710	.16106	.16562	.17112	.17660	.18242	.18840	.19454	.20082	.20744	.21380	.22070	.22778	.23478	.24184	.24902	.25618	.26342
0.17	.16162	.16336	.16654	.17026	.17448	.17972	.18486	.19050	.19636	.20232	.20820	.21464	.22072	.22752	.23446	.24136	.24814	.25518	.26210	.26918
0.18	.17168	.17320	.17602	.17946	.18338	.18834	.19320	.19862	.20428	.21014	.21584	.22206	.22804	.23466	.24136	.24806	.25472	.26156	.26832	.27524
0.19	.18174	.18308	.18552	.18878	.19246	.19716	.20184	.20694	.21242	.21808	.22358	.22964	.23548	.24186	.24838	.25494	.26136	.26814	.27474	.28148
0.20	.19174	.19280	.19510	.19818	.20164	.20614	.21068	.21558	.22098	.22650	.23180	.23758	.24324	.24938	.25568	.26210	.26836	.27508	.28150	.28818

Significance levels for $KS - V$ Sequential test for n = 50

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01010	.02024	.03038	.04052	.05056	.06074	.07092	.08102	.09110	.10120	.11126	.12138	.13150	.14166	.15180	.16190	.17204	.18222	.19230
0.02	.01012	.01958	.02914	.03886	.04848	.05818	.06798	.07778	.08762	.09744	.10726	.11690	.12678	.13662	.14656	.15644	.16630	.17630	.18634	.19628
0.03	.02014	.02862	.03770	.04674	.05594	.06530	.07488	.08442	.09384	.10346	.11304	.12242	.13198	.14158	.15126	.16096	.17062	.18032	.19012	.19978
0.04	.03020	.03798	.04648	.05508	.06382	.07270	.08196	.09128	.10044	.10976	.11904	.12820	.13752	.14686	.15622	.16556	.17512	.18466	.19416	.20368
0.05	.04028	.04760	.05552	.06368	.07196	.08044	.08932	.09840	.10716	.11622	.12524	.13420	.14326	.15238	.16156	.17068	.17998	.18922	.19854	.20794
0.06	.05042	.05710	.06450	.07220	.08012	.08824	.09682	.10558	.11406	.12274	.13150	.14024	.14912	.15792	.16684	.17566	.18468	.19374	.20288	.21206
0.07	.06052	.06666	.07366	.08084	.08840	.09624	.10448	.11294	.12118	.12956	.13810	.14666	.15524	.16382	.17254	.18118	.19008	.19896	.20790	.21688
0.08	.07062	.07624	.08288	.08968	.09676	.10422	.11198	.12014	.12802	.13614	.14446	.15288	.16120	.16960	.17810	.18648	.19502	.20366	.21244	.22122
0.09	.08082	.08586	.09208	.09844	.10518	.11228	.11986	.12786	.13520	.14304	.15114	.15936	.16742	.17566	.18392	.19220	.20050	.20890	.21748	.22612
0.10	.09092	.09548	.10124	.10732	.11370	.12054	.12784	.13534	.14254	.15010	.15794	.16600	.17386	.18180	.18994	.19806	.20622	.21440	.22272	.23116
0.11	.10106	.10502	.11056	.11634	.12248	.12894	.13598	.14318	.15010	.15746	.16514	.17300	.18068	.18850	.19642	.20436	.21230	.22028	.22840	.23670
0.12	.11114	.11464	.11994	.12538	.13126	.13742	.14414	.15100	.15774	.16494	.17230	.17990	.18734	.19488	.20266	.21040	.21814	.22606	.23396	.24202
0.13	.12122	.12412	.12900	.13428	.14002	.14598	.15248	.15906	.16556	.17258	.17970	.18702	.19426	.20162	.20924	.21682	.22434	.23198	.23968	.24762
0.14	.13126	.13392	.13836	.14320	.14890	.15460	.16090	.16724	.17344	.18028	.18724	.19432	.20144	.20860	.21608	.22346	.23066	.23802	.24548	.25320
0.15	.14134	.14354	.14778	.15230	.15758	.16298	.16914	.17532	.18126	.18790	.19460	.20142	.20834	.21526	.22242	.22970	.23676	.24388	.25122	.25878
0.16	.15144	.15348	.15722	.16146	.16632	.17138	.17712	.18312	.18894	.19532	.20178	.20844	.21520	.22194	.22894	.23598	.24282	.24978	.25696	.26428
0.17	.16158	.16340	.16680	.17086	.17548	.18036	.18584	.19156	.19716	.20342	.20972	.21606	.22262	.22910	.23588	.24272	.24932	.25606	.26312	.27030
0.18	.17160	.17320	.17628	.18002	.18436	.18914	.19432	.19976	.20512	.21126	.21726	.22342	.22984	.23610	.24264	.24934	.25584	.26238	.26926	.27630
0.19	.18164	.18306	.18588	.18936	.19334	.19790	.20290	.20812	.21332	.21932	.22514	.23112	.23738	.24356	.24988	.25642	.26284	.26922	.27596	.28282
0.20	.19172	.19294	.19560	.19890	.20268	.20704	.21178	.21676	.22182	.22754	.23324	.23898	.24502	.25096	.25714	.26360	.26978	.27602	.28268	.28934

Table 5.9 (Continued)

5.2 Power Analysis

The power analysis helps to examine which test is more powerful and efficient against specific alternative distributions.

There are three common results of the power tests. First, as the α level increases the power increases. This is not surprising, because as the *type I error* increases, *type II error* decreases, therefore the power increases. The second common result appears to be that as the sample size increases the power increases. This is also a common sense, because larger samples carry much more information than the smaller ones. Finally, the theory that the Cauchy is a member of t-family with degrees of freedom 1 was proved by the power results of the standard tests against $t(1)$. The powers are very close to the corresponding α levels even for $t(2)$. On the other hand, the idea that the Cauchy would give a good approximation to the normal was partially proved, too. But, as the sample size increases more than 15, it becomes obvious that the power goes up. That is because the larger samples help to distinguish the larger tails of the Cauchy distribution. So, it could be, with a high confidence, said that the Cauchy could be used to approximate the normal distribution with a sample size up to 15. Next sections will discuss the powers of the three test types.

5.2.1 Power Analysis of the Standard Tests. The power tables of KS test were presented in the Tables 5.10-5.11. The results for the KS test support the conclusions of Ocasio's thesis. KS test has very high powers against both the symmetric and the non-symmetric distributions. Compared to the CM and A^2 tests for the standard and even sometimes for the reflected cases of those, standard KS is more powerful.

The results for the Kuiper test presented in the Tables 5.12-5.13 show that V is the most powerful test among those studied so far for the Cauchy distribution as hypothesized. V has at least twice the power of KS against the $t - family$.

Specifically, while the power is around twice of the KS at $\alpha = 0.20$ and $\alpha = 0.15$, it goes up a lot more than twice for $\alpha = 0.01, \alpha = 0.05, \alpha = 0.10$. For example for $t(5)$ and $n = 50$, while the power of KS is 0.01578 at $\alpha = 0.01$, the Kuiper has 0.28728 which is almost 18 times better than the one K-S has. This ratio goes up to 20 for the $t(15)$ and $t(20)$ at the same level and for the same sample size. For smaller samples like $n = 10, 15$, V has almost $5 - 7$ times better powers than KS does.

The same behavior of the Kuiper test is observed against the Normal, Beta, Gamma and Weibull distributions. For the Gamma, even though the power doesn't go up as much as in the other distributions, it is still around $150\% - 300\%$ better than KS. Since the Gamma used in this study is non-symmetric (but not too skewed), KS has better power than it has against others.

For exponential distribution, both tests have approximately the same powers with KS having slightly bigger values at larger α levels and V having slightly better values at smaller α levels ($\alpha = 0.01, 0.05, 0.10$). It has to be mentioned that both of the tests reach their highest power levels against the exponential distribution. In general, after sample size gets more than 25 for every α level, the powers fall in the range of $0.90 - 0.99$.

The power results against the exponential and the Gamma show that both tests are very good against non-symmetric distributions like exponential. But, V test has better power against non-symmetric but skewed two tail distributions.

5.2.2 Power Analysis of the Reflected Tests. The power results of the reflected tests are interesting. The powers of both the KS and the V tests turned out exactly the same for the reflected study as seen in the Tables 5.14-5.15. But as explained above V statistic has always twice of the value of KS statistic, and the critical values for V are twice of KS'. Therefore, even though the values are different, because of the same ratio in the statistics and the critical values, the powers turn out to be the same.

On the other hand, the expected result was reached with the improvement in the power compared to the standard cases. For symmetric or nearly symmetric distributions (in this study t-family, Normal, Beta and Weibull), the reflection technique increases the power. The reflected test method doesn't get any improvement for the sample size $n = 5$. In fact, it resulted worse for the V test than its standard test. But as the sample gets bigger, the improvement in the power starts showing up. As noticed from the tables the improvement in the reflected V test is not as much as in the reflected KS test. Because, even for the standard case V test alone has real high powers compared to the KS test. Even though they both have the same powers in the reflected case, the KS has much more improvement than the Kuiper because of its relatively lower power in the standard test.

The reflected test doesn't improve the power against non-symmetric distributions. Examining the powers for the exponential distribution in reflected tests reveals that the power goes at least half way down compared to those in the standard tests. This result was expected prior to the study. Because the intuitive analysis would indicate that even if the sample is not symmetric, reflecting it about the location parameter would make it perfectly symmetric anyway. The same kind of reduction in the power is observed for the Gamma, too. Because the Gamma distribution picked for the power study had shape parameter 2 which makes it non-symmetric. But the reduction is not as much as in the exponential distribution, because although the Gamma is not symmetric it is still two tailed distribution. However the power is still low compared to the standard tests.

5.2.3 Power Analysis of Sequential Tests. The analysis of the sequential tests is much harder than the other two types. One reason for this is that the sequential tests doesn't have exact significance levels such as $\alpha = 0.05$ or $\alpha = 0.10$. Very close levels were derived, however each level closer to those exact α levels have different combinations of the two tests. And different combinations resulted in different power levels. For example, very close levels to $\alpha = 0.10$ give different power

levels in the range of $0.35 - 0.85$ for the sequential test of $CM(Ref) - V$ against exponential. But the limits of this range are determined by the extreme points as seen on the graphs. The graphs show that the real range after disregarding those extreme points is around $0.60 - 0.80$.

The closer examination shows that the variance in the power differs from test to test and depending on the alternative distributions.

The $CM - V$ sequential test gives very small variance in the power against exponential and relatively small variance against the Gamma distributions. It seems like since both tests have higher powers against non-symmetric distributions the sequential test turns out to be more powerful against non-symmetric distributions. On the other hand, even though the Kuiper test is powerful against symmetric distributions, CM's less power causes the large variance in the power against symmetric distributions. In the combinations, as the α level of V decreases and α level of CM increases, the power goes down. The power study results for this test are included in Appendix D. Here only the results for $n = 25$ and $n = 50$ are presented in Tables 5.16-5.21 along with the graphs (Figure 5.1 through Figure 5.4).

Moore and Yen showed that the reflection technique improved the power of CM test against symmetric distributions [23]. Therefore the sequential test of $CM(Ref) - V$ turned out to have very low variance in the power against symmetric distributions. The complete power results of this sequential test are included in Appendix E along with the graphs. Since the reflection has negative effect on the power against non-symmetric distributions, the large variance in the power for the exponential and the Gamma is observed in this sequential test. But for all of the symmetric distributions the power has very low variance. The power results for $n = 25$ and $n = 50$ are shown in the Tables 5.22-5.27. The powers are plotted for these cases in Figures 5.6-5.10.

The last sequential test which is the combination of KS and V has the same kind of behavior as CM and V sequential test. Because of the relatively low power

of KS against symmetric distributions, the power against those has large variance depending on the α level combinations. But both tests have very high powers against non-symmetric distributions. Therefore powers against the exponential and the Gamma turned out to have almost no variance. The results for $n = 25$ and $n = 50$ are shown in Tables 5.28-5.33 and corresponding graphs are presented in the Figures 5.11-5.15. The complete results and the graphs are in the Appendix F.

In the graphs, x-axis is the significance levels and y-axis is the power levels. The continuous lines represent the power level of the sequential tests. "o" represents the power levels of the Kuiper test while "$*$" represent the power levels of the other individual test used in the sequential test.

For symmetric distributions, the power of a sequential test at any α level is somewhere between the power of the two individual tests at the same α levels. This indicates that sequential test improves the power of the individual test other than V, while reduces the power of V. On the other hand, for non-symmetric distributions, sequential test reduces the power for both of the tests. As seen on the graphs, the power levels of each of the three sequential tests are lower than the power levels of the individual tests against the exponential and the Gamma distributions.

Power Study Results For K-S Test

n	α	Cauchy	Normal	Exp	Beta	Gamma	Weibull
5	.20	0.19872	0.17868	0.29752	0.19826	0.23128	0.18206
	.15	0.15170	0.13130	0.23278	0.14688	0.17502	0.13438
	.10	0.10128	0.08084	0.15894	0.09428	0.11416	0.08292
	.05	0.05178	0.03668	0.08302	0.04182	0.05252	0.03758
	.01	0.00994	0.00680	0.01634	0.00702	0.00864	0.00698
10	.20	0.20302	0.19116	0.53804	0.23762	0.34850	0.19766
	.15	0.15332	0.13758	0.45748	0.17708	0.27306	0.14284
	.10	0.09984	0.08546	0.35516	0.11470	0.19080	0.08924
	.05	0.04948	0.04006	0.22460	0.05692	0.10360	0.04202
	.01	0.01034	0.00748	0.06870	0.01016	0.02368	0.00776
15	.20	0.19562	0.21444	0.75338	0.30280	0.49416	0.22520
	.15	0.14724	0.15780	0.68348	0.23082	0.40774	0.16570
	.10	0.09638	0.10062	0.58120	0.15276	0.30054	0.10692
	.05	0.04896	0.04782	0.42168	0.07776	0.17690	0.05056
	.01	0.00916	0.00840	0.15976	0.01430	0.04224	0.00908
20	.20	0.19782	0.25642	0.90126	0.38792	0.65654	0.27188
	.15	0.14988	0.18914	0.85620	0.29832	0.56598	0.20094
	.10	0.09906	0.12044	0.78388	0.20064	0.44592	0.13054
	.05	0.04982	0.05532	0.63516	0.09884	0.27746	0.05890
	.01	0.00942	0.00950	0.31826	0.02084	0.07908	0.01058
25	.20	0.19874	0.29946	0.96746	0.49338	0.79244	0.32280
	.15	0.14876	0.22034	0.94658	0.39132	0.71556	0.23856
	.10	0.09876	0.13878	0.90544	0.27096	0.59596	0.15124
	.05	0.05038	0.06386	0.81270	0.14090	0.41248	0.07040
	.01	0.01026	0.01146	0.51956	0.02962	0.13880	0.01276

Table 5.10 Power tables of Standard Kolmogorov-Simirnov Test against alternatives

Power Study Results For K-S Test

n	α	Cauchy	Normal	Exp	Beta	Gamma	Weibull
	.20	0.20076	0.35546	0.99126	0.60914	0.89260	0.38792
	.15	0.15220	0.26310	0.98434	0.49778	0.83548	0.29038
30	.10	0.10258	0.17060	0.96802	0.36196	0.73930	0.18860
	.05	0.05046	0.08070	0.92040	0.20050	0.56018	0.09012
	.01	0.00994	0.01308	0.69892	0.19862	0.22260	0.01486
	.20	0.19940	0.41770	0.99828	0.71910	0.94944	0.46190
	.15	0.14868	0.31272	0.99644	0.60840	0.91298	0.34956
35	.10	0.09898	0.20442	0.99104	0.46024	0.84712	0.22898
	.05	0.04936	0.09720	0.97004	0.26170	0.69586	0.10968
	.01	0.00956	0.01536	0.83518	0.05608	0.32220	0.01816
	.20	0.19890	0.48422	0.99980	0.81032	0.97914	0.53692
	.15	0.14924	0.37200	0.99926	0.71266	0.95964	0.41870
40	.10	0.10086	0.24594	0.99816	0.56732	0.91814	0.28192
	.05	0.05074	0.11378	0.99168	0.34342	0.80822	0.13178
	.01	0.00926	0.01792	0.92128	0.07950	0.44006	0.02094
	.20	0.19962	0.53726	0.99998	0.88040	0.99268	0.59768
	.15	0.14812	0.41846	0.99992	0.80140	0.98308	0.47324
45	.10	0.09874	0.28518	0.99960	0.66820	0.96108	0.32928
	.05	0.04846	0.13500	0.99748	0.42924	0.88594	0.15944
	.01	0.00902	0.02120	0.96648	0.10756	0.55966	0.02560
	.20	0.20106	0.61240	0.99998	0.92992	0.99758	0.67990
	.15	0.15134	0.48902	0.99996	0.87284	0.99434	0.55526
50	.10	0.09972	0.33930	0.99984	0.76258	0.98348	0.39556
	.05	0.04874	0.16590	0.99944	0.53642	0.93942	0.19862
	.01	0.01008	0.02834	0.99002	0.17026	0.70770	0.03460

Table 5.10 (Continued)

Power Study Results For K-S Test

n	α	t(1)	t(2)	t(5)	t(10)	t(15)	t(20)
5	.20	0.19864	0.16798	0.16860	0.17340	0.17470	0.17364
	.15	0.14982	0.12198	0.12300	0.12580	0.12936	0.12734
	.10	0.10026	0.07804	0.07658	0.07964	0.07838	0.07948
	.05	0.05080	0.03560	0.03456	0.03570	0.03398	0.03638
	.01	0.01080	0.00572	0.00550	0.00550	0.00524	0.00542
10	.20	0.20318	0.16962	0.17238	0.17644	0.18104	0.18536
	.15	0.15344	0.12282	0.12358	0.12662	0.13104	0.13420
	.10	0.10214	0.07714	0.07784	0.07802	0.08342	0.08452
	.05	0.04964	0.03556	0.03626	0.03668	0.03774	0.03964
	.01	0.00954	0.00698	0.00692	0.00700	0.00684	0.00734
15	.20	0.19430	0.17122	0.18872	0.20152	0.20478	0.20836
	.15	0.14534	0.12452	0.13782	0.14648	0.14822	0.14980
	.10	0.09548	0.07688	0.08506	0.09218	0.09386	0.09554
	.05	0.04942	0.03578	0.03886	0.04232	0.04520	0.04430
	.01	0.00972	0.00558	0.00632	0.00698	0.00706	0.00714
20	.20	0.20064	0.18226	0.20980	0.22822	0.23764	0.24490
	.15	0.15114	0.13182	0.15208	0.16628	0.17398	0.17862
	.10	0.10020	0.08326	0.09570	0.10434	0.11096	0.11216
	.05	0.04856	0.03714	0.04240	0.04524	0.04936	0.05022
	.01	0.00826	0.00614	0.00696	0.00702	0.00788	0.00762
25	.20	0.19890	0.18830	0.23370	0.26462	0.27454	0.28048
	.15	0.15008	0.13738	0.16932	0.19242	0.20004	0.20604
	.10	0.09860	0.08528	0.10574	0.11908	0.12632	0.12842
	.05	0.05076	0.03900	0.04836	0.05520	0.05810	0.06022
	.01	0.01050	0.00594	0.00804	0 00898	0.00998	0.01044

Table 5.11 Power tables of Standard Kolmogorov-Simirnov Test against t-family

Power Study Results For K-S Test

n	α	t(1)	t(2)	t(5)	t(10)	t(15)	t(20)
	.20	0.20328	0.19964	0.26660	0.30668	0.31758	0.33008
	.15	0.15378	0.14662	0.19402	0.22658	0.23362	0.24624
30	.10	0.10118	0.09286	0.12230	0.14350	0.15006	0.15784
	.05	0.05056	0.04232	0.05604	0.06734	0.06844	0.07054
	.01	0.01024	0.00660	0.00850	0.01170	0.01048	0.01050
	.20	0.20358	0.21244	0.30080	0.35398	0.36786	0.38082
	.15	0.15166	0.15382	0.21966	0.25990	0.27364	0.28512
35	.10	0.10156	0.09694	0.13918	0.16468	0.17568	0.18486
	.05	0.05104	0.04498	0.06448	0.07490	0.08034	0.08690
	.01	0.00974	0.00654	0.01012	0.01156	0.01224	0.01374
	.20	0.19840	0.22160	0.33244	0.39858	0.42852	0.43534
	.15	0.14962	0.16094	0.24538	0.29820	0.32360	0.32764
40	.10	0.09996	0.10430	0.15722	0.19502	0.20974	0.21456
	.05	0.05058	0.04776	0.07042	0.09236	0.09652	0.10024
	.01	0.01014	0.00726	0.01142	0.01398	0.01420	0.01486
	.20	0.19876	0.22736	0.36210	0.44428	0.47336	0.49304
	.15	0.14890	0.16686	0.27070	0.33466	0.36124	0.37630
45	.10	0.09910	0.10766	0.17558	0.22370	0.23996	0.25162
	.05	0.04938	0.04904	0.07940	0.10356	0.11166	0.11506
	.01	0.00962	0.00698	0.01134	0.01554	0.01660	0.01692
	.20	0.19870	0.24014	0.40770	0.50356	0.53432	0.55408
	.15	0.14954	0.17522	0.30444	0.38946	0.41628	0.43114
50	.10	0.09868	0.11146	0.19704	0.26118	0.28034	0.29712
	.05	0.04920	0.05038	0.08912	0.12222	0.13388	0.14220
	.01	0.01010	0.00876	0.01578	0.02132	0.02396	0.02518

Table 5.11 (Continued)

Power Study Results For Kuiper Test

n	α	Cauchy	Normal	Exp	Beta	Gamma	Weibull
5	.20	0.20154	0.25968	0.31602	0.28248	0.27724	0.26616
	.15	0.15200	0.19886	0.24602	0.21644	0.21336	0.20366
	.10	0.10210	0.13522	0.17090	0.14828	0.14454	0.13868
	.05	0.05000	0.07170	0.09346	0.07814	0.07468	0.07370
	.01	0.01114	0.01678	0.02300	0.01974	0.01856	0.01746
10	.20	0.19824	0.37468	0.53282	0.45746	0.44066	0.39338
	.15	0.14796	0.30216	0.45670	0.38148	0.36738	0.31946
	.10	0.09940	0.22288	0.36140	0.29358	0.27872	0.23824
	.05	0.04852	0.12654	0.23374	0.17858	0.16634	0.13676
	.01	0.00900	0.03168	0.07558	0.04954	0.04500	0.03554
15	.20	0.20028	0.50046	0.74208	0.64228	0.60832	0.53252
	.15	0.15028	0.42156	0.67740	0.56674	0.53328	0.45452
	.10	0.10190	0.33062	0.58842	0.47100	0.43958	0.35992
	.05	0.04978	0.20936	0.44104	0.32494	0.30242	0.23180
	.01	0.00978	0.06702	0.19404	0.12152	0.10842	0.07666
20	.20	0.19696	0.61216	0.87632	0.77992	0.75238	0.65466
	.15	0.14968	0.53650	0.83228	0.71734	0.68640	0.57966
	.10	0.10204	0.44214	0.76728	0.63184	0.59636	0.48594
	.05	0.05244	0.30680	0.64656	0.48892	0.45050	0.34632
	.01	0.01094	0.11350	0.37458	0.23994	0.20170	0.13446
25	.20	0.20042	0.71976	0.95204	0.88574	0.86306	0.76600
	.15	0.15046	0.65034	0.92912	0.84184	0.81276	0.69972
	.10	0.10092	0.55342	0.88992	0.77190	0.73614	0.60714
	.05	0.05204	0.40758	0.80510	0.64616	0.60226	0.46300
	.01	0.01108	0.17592	0.56268	0.36730	0.31968	0.21046

Table 5.12 Power tables of Standard Kuiper Test against alternatives

Power Study Results For Kuiper Test

n	α	Cauchy	Normal	Exp	Beta	Gamma	Weibull
	.20	0.19928	0.80208	0.98340	0.94400	0.92758	0.84636
	.15	0.14814	0.73922	0.97328	0.91564	0.89384	0.79026
30	.10	0.10048	0.65338	0.95406	0.86952	0.84062	0.71282
	.05	0.05162	0.51078	0.90622	0.77658	0.73144	0.57690
	.01	0.01136	0.24562	0.72788	0.51244	0.45060	0.29512
	.20	0.19746	0.86844	0.99472	0.97634	0.96576	0.90736
	.15	0.14942	0.81948	0.99126	0.96164	0.94626	0.86708
35	.10	0.09962	0.74432	0.98298	0.93358	0.91028	0.80250
	.05	0.05198	0.61068	0.95978	0.86910	0.82976	0.68256
	.01	0.01040	0.32184	0.84530	0.63938	0.57482	0.38980
	.20	0.20068	0.91466	0.99892	0.99100	0.98454	0.94568
	.15	0.15022	0.87982	0.99796	0.98434	0.97406	0.91834
40	.10	0.10092	0.81748	0.99540	0.96882	0.95442	0.87210
	.05	0.05114	0.69638	0.98588	0.93022	0.90020	0.76754
	.01	0.01078	0.41302	0.92354	0.75952	0.69724	0.49442
	.20	0.20268	0.94682	0.99982	0.99694	0.99428	0.96938
	.15	0.15298	0.92056	0.99960	0.99402	0.98966	0.95236
45	.10	0.10170	0.87464	0.99866	0.98772	0.97928	0.91976
	.05	0.04974	0.77064	0.99518	0.96532	0.94668	0.83882
	.01	0.00896	0.49148	0.96460	0.84608	0.78918	0.58094
	.20	0.19826	0.96816	0.99994	0.99890	0.99804	0.98444
	.15	0.14792	0.94840	0.99990	0.99798	0.99584	0.97294
50	.10	0.09872	0.91488	0.99962	0.99522	0.99108	0.95048
	.05	0.05054	0.83888	0.99870	0.98498	0.97430	0.89542
	.01	0.00994	0.59560	0.98748	0.91632	0.87948	0.69056

Table 5.12 (Continued)

Power Study Results For Kuiper Test

n	α	t(1)	t(2)	t(5)	t(10)	t(15)	t(20)
5	.20	0.19898	0.21214	0.23754	0.24750	0.25202	0.25008
	.15	0.14674	0.15720	0.17948	0.18660	0.19150	0.18884
	.10	0.09786	0.10640	0.12126	0.12634	0.12948	0.12892
	.05	0.04878	0.05424	0.06474	0.06516	0.06714	0.06710
	.01	0.00996	0.01292	0.01504	0.01536	0.01692	0.01578
10	.20	0.19720	0.24270	0.31150	0.33566	0.35152	0.36022
	.15	0.14694	0.18584	0.24714	0.26950	0.28334	0.29028
	.10	0.09786	0.12632	0.17564	0.19562	0.20460	0.21044
	.05	0.04806	0.06748	0.09628	0.10704	0.11494	0.11832
	.01	0.00858	0.01350	0.02194	0.02636	0.02864	0.02872
15	.20	0.19752	0.27120	0.39084	0.44276	0.45884	0.47024
	.15	0.14752	0.21240	0.32104	0.36900	0.38498	0.39506
	.10	0.10070	0.14886	0.23980	0.28314	0.29748	0.30666
	.05	0.05008	0.07990	0.14360	0.17048	0.18504	0.18862
	.01	0.00976	0.01940	0.03932	0.05106	0.05588	0.05768
20	.20	0.19924	0.30000	0.46344	0.53488	0.56260	0.57726
	.15	0.14834	0.23720	0.38934	0.45758	0.48602	0.50122
	.10	0.10196	0.17172	0.30278	0.36670	0.39454	0.40548
	.05	0.05070	0.09794	0.19060	0.24112	0.26358	0.27478
	.01	0.01016	0.02432	0.05864	0.08420	0.09264	0.09698
25	.20	0.20340	0.33114	0.54728	0.63636	0.66308	0.68114
	.15	0.15186	0.26538	0.46976	0.56156	0.58658	0.60762
	.10	0.10156	0.19232	0.37616	0.46192	0.48678	0.50768
	.05	0.05166	0.11010	0.24770	0.32462	0.34646	0.36546
	.01	0.01122	0.03056	0.08612	0.12580	0.13940	0.14834

Table 5.13 Power tables of Standard Kuiper Test against t-family

Power Study Results For Kuiper Test

n	α	t(1)	t(2)	t(5)	t(10)	t(15)	t(20)
	.20	0.20078	0.35524	0.61464	0.71334	0.74338	0.75734
	.15	0.14902	0.28606	0.53408	0.63992	0.67346	0.68734
30	.10	0.10012	0.21348	0.43914	0.54804	0.58052	0.59698
	.05	0.05186	0.12714	0.30546	0.40502	0.43832	0.45356
	.01	0.01126	0.03606	0.11898	0.17326	0.19276	0.20734
	.20	0.20088	0.38970	0.67914	0.77978	0.81430	0.82574
	.15	0.15074	0.31954	0.60542	0.71554	0.75424	0.76826
35	.10	0.10192	0.23704	0.50794	0.62704	0.66494	0.68594
	.05	0.05204	0.14264	0.36980	0.48348	0.52492	0.54706
	.01	0.01020	0.04090	0.14844	0.22200	0.25218	0.27086
	.20	0.19922	0.41672	0.73676	0.83864	0.86844	0.87808
	.15	0.14920	0.34604	0.67128	0.78644	0.82214	0.83404
40	.10	0.10076	0.26494	0.57716	0.70524	0.74778	0.76198
	.05	0.05128	0.16214	0.43130	0.56008	0.60890	0.62796
	.01	0.00990	0.04824	0.18920	0.28448	0.32900	0.34408
	.20	0.19920	0.43994	0.78740	0.88250	0.90766	0.92154
	.15	0.15110	0.36846	0.72654	0.83866	0.86966	0.88536
45	.10	0.10240	0.28706	0.63844	0.76852	0.80772	0.82806
	.05	0.04992	0.17740	0.48532	0.63382	0.68126	0.70754
	.01	0.00974	0.05358	0.22658	0.34396	0.38952	0.41678
	.20	0.19546	0.46598	0.83180	0.91626	0.93896	0.94574
	.15	0.14616	0.39426	0.77560	0.88122	0.90972	0.91938
50	.10	0.09692	0.30510	0.69508	0.82296	0.86000	0.87342
	.05	0.04858	0.19832	0.55464	0.71162	0.75746	0.77846
	.01	0.01010	0.06646	0.28728	0.43346	0.48538	0.51258

Table 5.13 (Continued)

Power Study Tables For Reflected K-S and Kuiper Test

n	α	Cauchy	Normal	Exp	Beta	Gamma	Weibull
5	.20	0.20092	0.17514	0.21296	0.18842	0.18892	0.17868
	.15	0.14978	0.12548	0.15786	0.13732	0.13670	0.12820
	.10	0.09862	0.08106	0.10438	0.08676	0.08828	0.08264
	.05	0.04980	0.03848	0.05084	0.04154	0.04168	0.04010
	.01	0.00984	0.00718	0.01046	0.00756	0.00770	0.00726
10	.20	0.19998	0.36238	0.29104	0.42004	0.31062	0.37888
	.15	0.14894	0.28844	0.22972	0.34534	0.24842	0.30436
	.10	0.09816	0.20744	0.16670	0.26002	0.17972	0.22228
	.05	0.04752	0.11674	0.09252	0.15178	0.10228	0.12510
	.01	0.00960	0.02722	0.02356	0.04060	0.02682	0.03108
15	.20	0.20060	0.52454	0.37020	0.62422	0.42170	0.56042
	.15	0.15156	0.44730	0.30814	0.55214	0.35442	0.48158
	.10	0.10046	0.34658	0.23408	0.45334	0.27346	0.37992
	.05	0.05084	0.21942	0.14972	0.31612	0.17922	0.24674
	.01	0.00988	0.06174	0.04908	0.10972	0.05550	0.07286
20	.20	0.20196	0.67652	0.42248	0.78460	0.50510	0.71986
	.15	0.15268	0.59908	0.35704	0.72676	0.43728	0.64752
	.10	0.10390	0.50116	0.28248	0.64170	0.35850	0.55016
	.05	0.05250	0.35080	0.18696	0.49668	0.24394	0.39680
	.01	0.01046	0.12608	0.06818	0.23262	0.09250	0.15188
25	.20	0.20056	0.79936	0.47878	0.88872	0.58586	0.84342
	.15	0.15304	0.74070	0.41706	0.84918	0.52270	0.78854
	.10	0.10286	0.64776	0.33690	0.78336	0.43746	0.70528
	.05	0.05140	0.48914	0.22958	0.65896	0.31582	0.55286
	.01	0.01206	0.23106	0.09524	0.39474	0.14320	0.28016

Table 5.14 Power tables Reflected KS and V against alternatives

Power Study Tables For Reflected K-S and Kuiper Test

n	α	Cauchy	Normal	Exp	Beta	Gamma	Weibull
	.20	0.20280	0.88222	0.52742	0.94714	0.65550	0.91922
	.15	0.15484	0.83918	0.46082	0.92256	0.59288	0.88152
30	.10	0.10326	0.76510	0.37958	0.87902	0.50892	0.82224
	.05	0.05142	0.62288	0.26466	0.78488	0.38010	0.69294
	.01	0.01072	0.33218	0.11604	0.53854	0.18322	0.39976
	.20	0.19764	0.93518	0.56846	0.97560	0.70684	0.95892
	.15	0.14698	0.90318	0.50012	0.96118	0.64616	0.93698
35	.10	0.09824	0.84850	0.41768	0.93630	0.56514	0.89534
	.05	0.04978	0.73344	0.30412	0.87370	0.44012	0.80070
	.01	0.00996	0.44082	0.13468	0.66378	0.22488	0.52470
	.20	0.20012	0.96876	0.61482	0.98908	0.75888	0.98418
	.15	0.14956	0.95050	0.54778	0.98246	0.70170	0.97228
40	.10	0.10174	0.91576	0.46584	0.96866	0.62660	0.94970
	.05	0.05096	0.83014	0.34274	0.93102	0.50476	0.88778
	.01	0.01042	0.56044	0.15998	0.77810	0.27684	0.65292
	.20	0.19982	0.98512	0.65384	0.99624	0.80398	0.99370
	.15	0.14838	0.97458	0.58762	0.99258	0.75246	0.98740
45	.10	0.09820	0.95232	0.50338	0.98506	0.67934	0.97482
	.05	0.04974	0.89376	0.37838	0.96394	0.55878	0.93840
	.01	0.01062	0.67290	0.18544	0.85934	0.32830	0.76472
	.20	0.19766	0.99356	0.69002	0.99834	0.84182	0.99764
	.15	0.14838	0.98770	0.62660	0.99704	0.79684	0.99532
50	.10	0.09908	0.97464	0.54656	0.99404	0.72784	0.98928
	.05	0.00497	0.93608	0.41702	0.98146	0.61338	0.96782
	.01	0.01002	0.75436	0.20644	0.90764	0.36932	0.83638

Table 5.14 (Continued)

Power Study Tables For Reflected K-S and Kuiper Test

n	α	t(1)	t(2)	t(5)	t(10)	t(15)	t(20)
	.20	0.20272	0.16600	0.16650	0.17018	0.17212	0.17304
	.15	0.15044	0.11880	0.11900	0.12106	0.12346	0.12364
5	.10	0.09904	0.07592	0.07482	0.07752	0.07806	0.07934
	.05	0.04940	0.03678	0.03654	0.03586	0.03586	0.03644
	.01	0.01016	0.00572	0.00658	0.00672	0.00684	0.00650
	.20	0.20104	0.22548	0.29378	0.32730	0.33878	0.34368
	.15	0.15076	0.17102	0.22670	0.26012	0.26812	0.27074
10	.10	0.10048	0.11558	0.16112	0.18474	0.19162	0.19572
	.05	0.04854	0.05744	0.08526	0.09994	0.10518	0.10628
	.01	0.00962	0.01142	0.01980	0.02294	0.02476	0.02586
	.20	0.20390	0.26850	0.40138	0.45796	0.48538	0.49292
	.15	0.15464	0.20876	0.32898	0.38108	0.40566	0.41410
15	.10	0.10312	0.14348	0.24068	0.28500	0.30700	0.31460
	.05	0.05100	0.07752	0.14310	0.17562	0.18882	0.19680
	.01	0.00998	0.01622	0.03482	0.04510	0.04988	0.05662
	.20	0.20278	0.30942	0.50702	0.59230	0.61740	0.63534
	.15	0.15266	0.24420	0.42952	0.51130	0.53710	0.55536
20	.10	0.10384	0.17512	0.33764	0.41596	0.44118	0.45390
	.05	0.05096	0.09828	0.21336	0.27466	0.29842	0.30892
	.01	0.00906	0.02278	0.06292	0.09044	0.10210	0.10824
	.20	0.20296	0.34836	0.60636	0.70726	0.73882	0.75412
	.15	0.15480	0.28574	0.53236	0.63920	0.67080	0.68970
25	.10	0.10334	0.20822	0.43100	0.53846	0.57186	0.59318
	.05	0.05110	0.11928	0.29186	0.38472	0.41624	0.43680
	.01	0.01162	0.03306	0.10708	0.16026	0.17858	0.19102

Table 5.15 Power tables Reflected KS and V against t-family

Power Study Tables For Reflected K-S and Kuiper Test

n	α	t(1)	t(2)	t(5)	t(10)	t(15)	t(20)
	.20	0.20222	0.38458	0.69616	0.80090	0.83118	0.84562
	.15	0.15448	0.31624	0.62392	0.74148	0.77690	0.79134
30	.10	0.10310	0.23656	0.52612	0.65360	0.69132	0.70912
	.05	0.05170	0.13940	0.37560	0.49672	0.53780	0.55690
	.01	0.01120	0.03990	0.15476	0.23156	0.26200	0.27736
	.20	0.19960	0.42096	0.76194	0.86566	0.89556	0.90590
	.15	0.14834	0.34758	0.69540	0.81344	0.85144	0.86548
35	.10	0.09712	0.26312	0.60242	0.73488	0.77968	0.79912
	.05	0.04908	0.15936	0.45418	0.59558	0.64862	0.67036
	.01	0.00986	0.04586	0.20170	0.30514	0.35258	0.37438
	.20	0.19764	0.46152	0.82852	0.91890	0.93968	0.94806
	.15	0.14744	0.38806	0.77300	0.88140	0.90934	0.91992
40	.10	0.10024	0.30354	0.69044	0.82196	0.85806	0.87216
	.05	0.05094	0.19298	0.54632	0.69840	0.74776	0.76832
	.01	0.01096	0.06044	0.26878	0.40104	0.45550	0.48014
	.20	0.19826	0.49538	0.87314	0.94870	0.96620	0.97242
	.15	0.14896	0.42028	0.82586	0.92296	0.94612	0.95430
45	.10	0.09980	0.33308	0.75222	0.87592	0.90672	0.92092
	.05	0.04898	0.21774	0.61864	0.77366	0.81844	0.84136
	.01	0.00994	0.07492	0.33758	0.49740	0.55660	0.58924
	.20	0.19862	0.53800	0.91280	0.97200	0.98166	0.98626
	.15	0.14842	0.46362	0.87472	0.95480	0.96842	0.97602
50	.10	0.09844	0.37218	0.81404	0.92124	0.94318	0.95464
	.05	0.04944	0.24708	0.69620	0.84156	0.88100	0.89666
	.01	0.00954	0.08456	0.40242	0.58184	0.64036	0.66952

Table 5.15 (Continued)

Powers of $CM - V$ Sequential test against Cauchy for $n = 25$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00892	.01866	.02902	.03842	.04812	.05866	.06922	.07844	.08882	.09846	.10906	.11932	.12968	.13938	.14994	.16036	.17166	.18316	.19406
0.02	.01030	.01872	.02798	.03790	.04708	.05638	.06660	.07690	.08582	.09580	.10524	.11554	.12556	.13572	.14510	.15538	.16552	.17656	.18774	.19842
0.03	.02108	.02916	.03814	.04770	.05660	.06562	.07552	.08556	.09416	.10388	.11314	.12326	.13298	.14292	.15206	.16206	.17204	.18278	.19370	.20426
0.04	.03172	.03922	.04780	.05696	.06556	.07432	.08402	.09370	.10222	.11186	.12096	.13088	.14030	.15002	.15894	.16884	.17878	.18936	.20010	.21036
0.05	.04144	.04866	.05696	.06574	.07398	.08250	.09206	.10132	.10966	.11904	.12804	.13786	.14700	.15656	.16532	.17512	.18492	.19528	.20588	.21586
0.06	.05168	.05856	.06652	.07500	.08298	.09116	.10054	.10954	.11774	.12700	.13578	.14542	.15440	.16376	.17240	.18202	.19170	.20182	.21216	.22190
0.07	.06096	.06752	.07518	.08344	.09116	.09908	.10820	.11704	.12506	.13416	.14278	.15234	.16108	.17036	.17882	.18830	.19780	.20774	.21790	.22742
0.08	.07060	.07680	.08430	.09224	.09982	.10748	.11648	.12514	.13298	.14190	.15036	.15968	.16828	.17740	.18572	.19500	.20432	.21406	.22398	.23332
0.09	.08088	.08686	.09406	.10180	.10902	.11646	.12520	.13354	.14116	.14992	.15818	.16724	.17566	.18464	.19286	.20196	.21112	.22064	.23050	.23978
0.10	.09082	.09652	.10348	.11094	.11792	.12518	.13372	.14178	.14930	.15778	.16582	.17472	.18294	.19172	.19986	.20882	.21784	.22722	.23686	.24594
0.11	.10114	.10666	.11334	.12050	.12724	.13436	.14268	.15052	.15788	.16618	.17406	.18280	.19078	.19934	.20726	.21600	.22480	.23406	.24350	.25240
0.12	.11090	.11624	.12260	.12958	.13610	.14304	.15122	.15886	.16604	.17414	.18186	.19044	.19832	.20676	.21454	.22308	.23174	.24078	.25006	.25872
0.13	.12028	.12522	.13148	.13830	.14464	.15136	.15936	.16682	.17390	.18186	.18950	.19794	.20568	.21392	.22148	.22990	.23840	.24718	.25636	.26490
0.14	.13090	.13564	.14178	.14838	.15442	.16102	.16878	.17606	.18296	.19074	.19816	.20644	.21392	.22210	.22944	.23772	.24604	.25468	.26362	.27204
0.15	.14100	.14554	.15154	.15780	.16362	.17006	.17766	.18474	.19148	.19908	.20632	.21432	.22160	.22960	.23686	.24494	.25306	.26148	.27028	.27854
0.16	.15166	.15604	.16170	.16766	.17320	.17954	.18682	.19374	.20036	.20784	.21492	.22272	.22986	.23764	.24472	.25256	.26066	.26898	.27768	.28578
0.17	.16196	.16608	.17150	.17728	.18260	.18866	.19584	.20246	.20884	.21616	.22310	.23066	.23764	.24526	.25220	.26000	.26780	.27584	.28436	.29232
0.18	.17204	.17594	.18108	.18662	.19168	.19756	.20450	.21092	.21712	.22422	.23096	.23834	.24520	.25270	.25968	.26716	.27482	.28272	.29102	.29884
0.19	.18244	.18618	.19102	.19630	.20120	.20694	.21360	.21984	.22584	.23280	.23940	.24672	.25346	.26080	.26748	.27500	.28248	.29022	.29840	.30616
0.20	.19146	.19510	.19974	.20482	.20944	.21502	.22158	.22770	.23356	.24040	.24692	.25418	.26080	.26800	.27450	.28190	.28922	.29684	.30486	.31250

Powers of $CM - V$ Sequential test against Cauchy for $n = 50$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00944	.01912	.02936	.03922	.05032	.06182	.07196	.08276	.09286	.10300	.11272	.12244	.13274	.14326	.15220	.16258	.17278	.18494	.19456
0.02	.01036	.01920	.02862	.03862	.04816	.05862	.07008	.07986	.09050	.10024	.11008	.11956	.12900	.13912	.14940	.15816	.16824	.17816	.19020	.19956
0.03	.02014	.02858	.03764	.04734	.05658	.06700	.07788	.08746	.09784	.10736	.11698	.12628	.13550	.14544	.15540	.16414	.17396	.18374	.19556	.20472
0.04	.03040	.03844	.04708	.05644	.06554	.07552	.08622	.09566	.10582	.11516	.12456	.13366	.14266	.15236	.16212	.17070	.18032	.18992	.20158	.21046
0.05	.04110	.04870	.05692	.06580	.07458	.08436	.09474	.10400	.11390	.12302	.13226	.14110	.14994	.15942	.16904	.17742	.18686	.19622	.20786	.21632
0.06	.05194	.05908	.06688	.07544	.08386	.09344	.10350	.11252	.12214	.13108	.14006	.14872	.15732	.16664	.17618	.18440	.19362	.20280	.21400	.22280
0.07	.06136	.06820	.07572	.08400	.09224	.10160	.11140	.12008	.12954	.13828	.14712	.15568	.16414	.17322	.18256	.19062	.19968	.20878	.21974	.22808
0.08	.07088	.07734	.08450	.09244	.10050	.10966	.11916	.12754	.13662	.14524	.15384	.16228	.17062	.17956	.18874	.19668	.20566	.21462	.22542	.23358
0.09	.08064	.08668	.09372	.10122	.10920	.11814	.12738	.13554	.14446	.15292	.16132	.16964	.17784	.18658	.19554	.20324	.21204	.22084	.23140	.23950
0.10	.08978	.09562	.10240	.10968	.11756	.12630	.13530	.14322	.15190	.16006	.16836	.17644	.18450	.19314	.20188	.20944	.21804	.22676	.23706	.24504
0.11	.10106	.10646	.11302	.12004	.12768	.13612	.14486	.15258	.16104	.16910	.17724	.18514	.19306	.20146	.21006	.21738	.22586	.23436	.24454	.25244
0.12	.11104	.11616	.12250	.12930	.13684	.14508	.15364	.16112	.16944	.17730	.18536	.19314	.20094	.20918	.21760	.22476	.23308	.24150	.25150	.25918
0.13	.12028	.12524	.13138	.13796	.14538	.15338	.16172	.16904	.17724	.18488	.19268	.20036	.20810	.21626	.22450	.23158	.23972	.24806	.25788	.26548
0.14	.12952	.13430	.14028	.14668	.15382	.16150	.16972	.17694	.18484	.19224	.19980	.20740	.21500	.22302	.23108	.23804	.24604	.25410	.26376	.27122
0.15	.13934	.14388	.14968	.15578	.16268	.17010	.17814	.18526	.19296	.20028	.20768	.21518	.22260	.23048	.23834	.24516	.25302	.26088	.27044	.27776
0.16	.14886	.15322	.15882	.16484	.17158	.17874	.18666	.19352	.20100	.20812	.21540	.22274	.23000	.23778	.24552	.25222	.25988	.26760	.27698	.28424
0.17	.15896	.16308	.16846	.17432	.18090	.18788	.19574	.20238	.20976	.21668	.22384	.23108	.23826	.24588	.25342	.25994	.26752	.27500	.28420	.29126
0.18	.16916	.17306	.17826	.18392	.19018	.19692	.20460	.21106	.21822	.22502	.23206	.23910	.24604	.25348	.26086	.26732	.27476	.28216	.29120	.29810
0.19	.17966	.18334	.18830	.19374	.19974	.20634	.21380	.22018	.22718	.23374	.24066	.24750	.25428	.26158	.26882	.27506	.28242	.28970	.29850	.30526
0.20	.19018	.19362	.19816	.20340	.20904	.21546	.22264	.22884	.23566	.24206	.24884	.25562	.26228	.26946	.27652	.28262	.28994	.29708	.30578	.31242

Table 5.16 Power tables of $CM - V$ against Cauchy ditribution

Powers of $CM - V$ Sequential test against Normal for $n = 25$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00610	.01342	.02148	.03134	.04234	.05418	.06616	.07818	.09238	.10580	.12176	.13910	.15644	.17216	.18890	.20822	.22752	.24806	.26750
0.02	.09558	.10056	.10652	.11292	.12120	.12998	.13952	.14934	.15930	.17104	.18214	.19512	.20884	.22298	.23578	.24964	.26540	.28114	.29780	.31358
0.03	.16662	.17098	.17614	.18192	.18918	.19654	.20462	.21300	.22154	.23188	.24138	.25250	.26418	.27658	.28746	.29950	.31330	.32660	.34106	.35416
0.04	.23158	.23560	.24010	.24520	.25146	.25786	.26504	.27254	.27990	.28892	.29702	.30674	.31680	.32736	.33692	.34734	.35934	.37114	.38356	.39460
0.05	.28282	.28652	.29080	.29524	.30092	.30676	.31310	.31980	.32634	.33462	.34172	.35042	.35930	.36890	.37730	.38654	.39732	.40772	.41872	.42840
0.06	.32818	.33166	.33560	.33952	.34460	.34996	.35554	.36168	.36770	.37494	.38150	.38920	.39736	.40582	.41332	.42158	.43144	.44050	.45036	.45880
0.07	.36298	.36618	.36986	.37344	.37814	.38324	.38852	.39406	.39966	.40634	.41240	.41956	.42700	.43490	.44170	.44926	.45848	.46674	.47578	.48336
0.08	.39808	.40112	.40452	.40794	.41254	.41734	.42214	.42704	.43228	.43850	.44410	.45060	.45746	.46460	.47086	.47794	.48624	.49386	.50210	.50898
0.09	.42866	.43150	.43474	.43802	.44228	.44678	.45132	.45582	.46056	.46642	.47150	.47764	.48396	.49054	.49614	.50272	.51018	.51720	.52474	.53100
0.10	.45918	.46186	.46498	.46804	.47194	.47612	.48030	.48448	.48874	.49418	.49888	.50450	.51040	.51644	.52150	.52752	.53440	.54096	.54794	.55384
0.11	.48730	.48986	.49272	.49562	.49920	.50304	.50698	.51080	.51482	.51982	.52408	.52928	.53472	.54024	.54484	.55050	.55686	.56292	.56934	.57492
0.12	.51104	.51346	.51622	.51892	.52234	.52586	.52972	.53328	.53702	.54174	.54576	.55060	.55570	.56082	.56524	.57062	.57658	.58226	.58834	.59338
0.13	.53554	.53790	.54050	.54306	.54630	.54956	.55320	.55654	.56016	.56444	.56816	.57262	.57750	.58218	.58630	.59128	.59674	.60186	.60746	.61216
0.14	.55734	.55950	.56192	.56436	.56746	.57054	.57398	.57710	.58050	.58446	.58794	.59192	.59642	.60092	.60486	.60958	.61484	.61948	.62470	.62906
0.15	.57716	.57928	.58160	.58392	.58694	.58984	.59306	.59598	.59926	.60294	.60620	.60986	.61410	.61830	.62194	.62624	.63112	.63552	.64044	.64460
0.16	.59742	.59944	.60164	.60384	.60676	.60950	.61256	.61528	.61840	.62180	.62480	.62824	.63216	.63614	.63946	.64332	.64782	.65196	.65644	.66022
0.17	.61534	.61730	.61942	.62154	.62434	.62692	.62976	.63234	.63540	.63878	.64164	.64484	.64856	.65222	.65530	.65886	.66296	.66690	.67114	.67456
0.18	.63096	.63286	.63484	.63692	.63964	.64212	.64472	.64720	.65016	.65326	.65604	.65910	.66256	.66600	.66898	.67226	.67616	.67992	.68402	.68726
0.19	.64658	.64844	.65032	.65230	.65488	.65722	.65976	.66218	.66486	.66792	.67058	.67354	.67688	.68014	.68296	.68604	.68972	.69324	.69712	.70014
0.20	.66114	.66292	.66472	.66662	.66906	.67130	.67366	.67608	.67860	.68144	.68396	.68670	.68992	.69294	.69570	.69870	.70214	.70550	.70908	.71192

Powers of $CM - V$ Sequential test against Normal for $n = 50$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01264	.03026	.05188	.07810	.10724	.13818	.16828	.20378	.23560	.27172	.30434	.33846	.37162	.40440	.43436	.46438	.49442	.52618	.55268
0.02	.28278	.29166	.30382	.31888	.33748	.35802	.37966	.40106	.42576	.44786	.47274	.49486	.51734	.53974	.56152	.58212	.60188	.62144	.64270	.66042
0.03	.42718	.43418	.44386	.45602	.47098	.48724	.50404	.52070	.53994	.55694	.57630	.59332	.61084	.62822	.64468	.66136	.67684	.69160	.70766	.72118
0.04	.52372	.52950	.53738	.54714	.55958	.57336	.58740	.60112	.61722	.63134	.64702	.66104	.67526	.68946	.70296	.71634	.72888	.74056	.75392	.76446
0.05	.60150	.60646	.61336	.62184	.63232	.64396	.65566	.66714	.68016	.69168	.70458	.71620	.72766	.73918	.75030	.76140	.77162	.78100	.79172	.80076
0.06	.65756	.66192	.66782	.67514	.68392	.69384	.70402	.71382	.72474	.73458	.74570	.75540	.76500	.77482	.78440	.79402	.80262	.81062	.81970	.82738
0.07	.70048	.70432	.70936	.71574	.72344	.73224	.74126	.74986	.75940	.76796	.77776	.78604	.79462	.80314	.81146	.81996	.82736	.83424	.84226	.84866
0.08	.73478	.73808	.74240	.74810	.75512	.76280	.77088	.77854	.78690	.79452	.80336	.81060	.81824	.82592	.83326	.84100	.84740	.85348	.86066	.86630
0.09	.76280	.76576	.76958	.77476	.78086	.78792	.79516	.80222	.80970	.81648	.82412	.83058	.83718	.84396	.85038	.85722	.86294	.86814	.87464	.87976
0.10	.78682	.78952	.79306	.79774	.80332	.80956	.81612	.82248	.82914	.83538	.84212	.84786	.85360	.85952	.86522	.87144	.87658	.88116	.88690	.89136
0.11	.81296	.81520	.81824	.82226	.82728	.83280	.83844	.84396	.84972	.85510	.86106	.86586	.87084	.87594	.88098	.88648	.89094	.89498	.89976	.90368
0.12	.83198	.83402	.83674	.84028	.84474	.84958	.85448	.85970	.86482	.86950	.87480	.87914	.88356	.88810	.89254	.89754	.90134	.90488	.90910	.91262
0.13	.84644	.84826	.85076	.85394	.85802	.86256	.86702	.87182	.87648	.88076	.88582	.88970	.89386	.89788	.90184	.90648	.90986	.91324	.91728	.92052
0.14	.86128	.86302	.86522	.86806	.87164	.87580	.87984	.88414	.88836	.89230	.89686	.90036	.90410	.90772	.91144	.91564	.91854	.92174	.92530	.92820
0.15	.87328	.87494	.87682	.87940	.88278	.88658	.89030	.89418	.89804	.90160	.90586	.90922	.91258	.91578	.91912	.92296	.92556	.92842	.93166	.93426
0.16	.88488	.88634	.88804	.89034	.89342	.89680	.90020	.90372	.90718	.91032	.91426	.91718	.92016	.92306	.92610	.92960	.93206	.93466	.93762	.94002
0.17	.89598	.89740	.89890	.90104	.90370	.90684	.90994	.91304	.91624	.91906	.92264	.92528	.92794	.93056	.93342	.93656	.93874	.94094	.94364	.94576
0.18	.90372	.90508	.90642	.90850	.91090	.91374	.91654	.91940	.92228	.92476	.92814	.93058	.93316	.93554	.93814	.94110	.94314	.94514	.94764	.94960
0.19	.91382	.91498	.91620	.91802	.92018	.92276	.92534	.92792	.93052	.93278	.93576	.93794	.94028	.94234	.94456	.94716	.94890	.95080	.95306	.95478
0.20	.92172	.92274	.92384	.92544	.92746	.92988	.93224	.93454	.93694	.93902	.94160	.94360	.94566	.94754	.94950	.95184	.95342	.95500	.95710	.95870

Table 5.17 Power tables of $CM - V$ against Normal ditribution

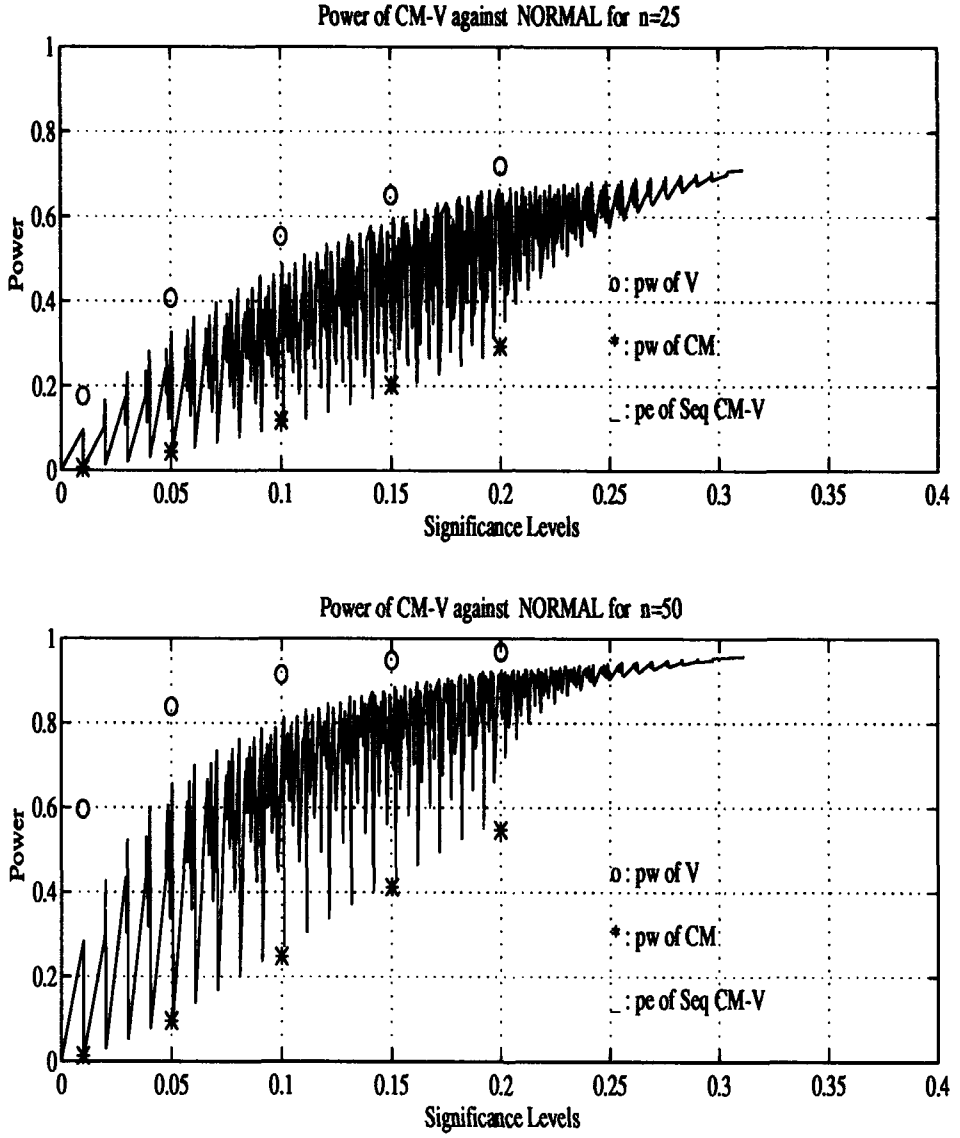

Figure 5.1 Power comparisons of $CM - V$ against Normal

Powers of $CM - V$ Sequential test against Exponential for $n = 25$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.16606	.28156	.36600	.43638	.49260	.54258	.58382	.61876	.65440	.68162	.70942	.73364	.75498	.77192	.78896	.80718	.82362	.83864	.85228
0.02	.23744	.35526	.43976	.50310	.55652	.59980	.63800	.66978	.69624	.72302	.74360	.76546	.78396	.80134	.81498	.82852	.84296	.85556	.86724	.87752
0.03	.37922	.47122	.53834	.58752	.62994	.66496	.69552	.72176	.74348	.76620	.78288	.80108	.81656	.83108	.84242	.85406	.86602	.87636	.88610	.89484
0.04	.48350	.55582	.61002	.65068	.68580	.71394	.73898	.76062	.77928	.79792	.81208	.82776	.84064	.85348	.86296	.87258	.88248	.89110	.89952	.90696
0.05	.55216	.61268	.65960	.69454	.72446	.74798	.76910	.78854	.80476	.82070	.83314	.84720	.85852	.86980	.87826	.88704	.89550	.90316	.91036	.91686
0.06	.60470	.65742	.69756	.72764	.75376	.77376	.79236	.80958	.82404	.83810	.84922	.86156	.87162	.88166	.88936	.89730	.90486	.91176	.91790	.92400
0.07	.64870	.69532	.73034	.75606	.77956	.79752	.81406	.82898	.84132	.85398	.86380	.87462	.88308	.89226	.89910	.90606	.91272	.91890	.92446	.92992
0.08	.68748	.72790	.75906	.78188	.80212	.81812	.83250	.84578	.85674	.86776	.87660	.88636	.89392	.90174	.90816	.91426	.92006	.92548	.93062	.93558
0.09	.71852	.75444	.78144	.80176	.81978	.83376	.84662	.85848	.86846	.87852	.88652	.89524	.90204	.90928	.91528	.92100	.92620	.93128	.93594	.94046
0.10	.74556	.77792	.80158	.81964	.83530	.84766	.85920	.86958	.87880	.88796	.89518	.90298	.90904	.91554	.92094	.92608	.93096	.93558	.93994	.94406
0.11	.77136	.79924	.82042	.83672	.85040	.86130	.87146	.88038	.88868	.89728	.90378	.91100	.91664	.92258	.92740	.93214	.93654	.94074	.94480	.94862
0.12	.79366	.81442	.83306	.84774	.86032	.87052	.87998	.88814	.89592	.90394	.90972	.91642	.92170	.92718	.93176	.93640	.94042	.94420	.94792	.95160
0.13	.80592	.82812	.84492	.85828	.86966	.87902	.88784	.89526	.90264	.90982	.91522	.92132	.92648	.93144	.93566	.94008	.94398	.94756	.95106	.95462
0.14	.82128	.84126	.85664	.86900	.87960	.88812	.89636	.90312	.90960	.91622	.92116	.92670	.93126	.93588	.93998	.94408	.94770	.95096	.95428	.95758
0.15	.83520	.85342	.86770	.87912	.88884	.89666	.90428	.91040	.91634	.92218	.92668	.93196	.93604	.94042	.94440	.94808	.95156	.95458	.95768	.96066
0.16	.84928	.86584	.87866	.88894	.89808	.90536	.91210	.91788	.92312	.92854	.93274	.93768	.94142	.94518	.94882	.95212	.95516	.95790	.96082	.96358
0.17	.86122	.87608	.88766	.89698	.90538	.91214	.91838	.92382	.92874	.93374	.93768	.94218	.94554	.94894	.95234	.95552	.95830	.96088	.96360	.96620
0.18	.87036	.88428	.89498	.90380	.91148	.91796	.92370	.92876	.93324	.93786	.94148	.94576	.94896	.95210	.95530	.95826	.96084	.96322	.96590	.96832
0.19	.87964	.89224	.90226	.91022	.91736	.92340	.92854	.93310	.93718	.94150	.94480	.94884	.95180	.95474	.95780	.96064	.96316	.96544	.96790	.97004
0.20	.88846	.90028	.90904	.91628	.92300	.92862	.93318	.93734	.94128	.94538	.94836	.95218	.95492	.95766	.96036	.96288	.96522	.96738	.96974	.97186

Powers of $CM - V$ Sequential test against Exponential for $n = 50$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.39778	.59436	.70218	.78316	.83824	.87824	.90340	.92834	.94062	.95386	.96260	.96956	.97556	.97884	.98376	.98630	.98908	.99048	.99204
0.02	.58836	.74960	.83002	.87466	.90396	.92744	.94592	.95676	.96890	.97474	.98006	.98386	.98666	.98934	.99116	.99306	.99416	.99502	.99546	.99608
0.03	.76538	.85850	.90592	.92878	.94616	.95770	.96644	.97300	.98106	.98462	.98866	.99084	.99202	.99368	.99292	.99620	.99682	.99696	.99724	.99728
0.04	.85416	.91154	.94278	.95750	.96840	.97644	.98070	.98470	.98786	.99018	.99236	.99406	.99490	.99596	.99644	.99698	.99728	.99742	.99784	.99786
0.05	.89878	.93848	.96094	.96974	.97766	.98316	.98576	.98918	.99066	.99226	.99398	.99548	.99596	.99698	.99722	.99778	.99806	.99820	.99842	.99844
0.06	.92152	.95154	.97002	.97664	.98254	.98594	.98770	.99060	.99180	.99264	.99426	.99552	.99600	.99702	.99726	.99780	.99810	.99822	.99844	.99846
0.07	.93536	.95992	.97536	.98024	.98530	.98834	.98946	.99152	.99252	.99318	.99454	.99568	.99612	.99714	.99738	.99790	.99810	.99822	.99844	.99846
0.08	.94940	.96724	.97956	.98342	.98732	.98984	.99076	.99258	.99350	.99414	.99536	.99648	.99692	.99752	.99776	.99816	.99834	.99846	.99868	.99870
0.09	.95964	.97348	.98416	.98738	.99000	.99216	.99298	.99446	.99538	.99560	.99646	.99748	.99776	.99828	.99828	.99846	.99856	.99870	.99870	.99870
0.10	.96444	.97716	.98672	.98944	.99152	.99346	.99422	.99550	.99638	.99656	.99728	.99830	.99858	.99862	.99862	.99862	.99862	.99864	.99874	.99874
0.11	.98176	.98578	.99350	.99438	.99554	.99664	.99668	.99758	.99796	.99808	.99828	.99886	.99914	.99918	.99918	.99918	.99918	.99920	.99930	.99930
0.12	.98250	.98942	.99398	.99486	.99598	.99680	.99684	.99774	.99812	.99824	.99834	.99892	.99920	.99924	.99924	.99924	.99924	.99926	.99936	.99936
0.13	.98570	.99184	.99578	.99626	.99722	.99792	.99796	.99874	.99898	.99902	.99902	.99910	.99938	.99942	.99942	.99942	.99942	.99942	.99952	.99952
0.14	.99044	.99518	.99790	.99820	.99884	.99934	.99934	.99944	.99968	.99968	.99968	.99970	.99970	.99974	.99974	.99974	.99974	.99974	.99984	.99984
0.15	.99044	.99518	.99790	.99820	.99884	.99934	.99934	.99944	.99968	.99968	.99968	.99970	.99970	.99974	.99974	.99974	.99974	.99974	.99984	.99984
0.16	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99976	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992
0.17	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99976	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992
0.18	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99976	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992
0.19	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99976	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992
0.20	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99976	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992

Table 5.18 Power tables of $CM - V$ against Exponential ditribution

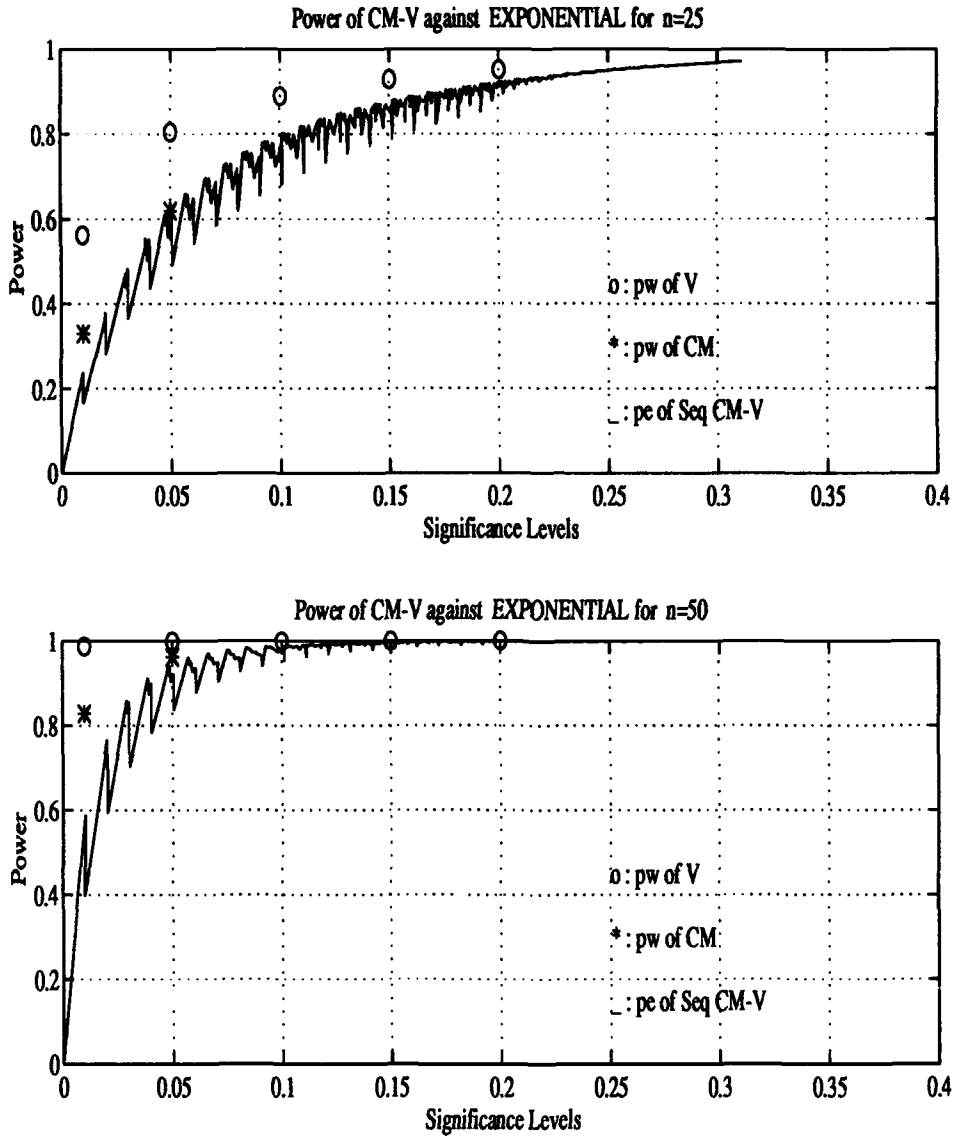

Figure 5.2 Power comparisons of $CM - V$ against Exponential

Powers of $CM - V$ Sequential test against Beta for $n = 25$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01530	.03150	.04930	.06886	.09000	.11122	.13258	.15396	.17824	.20034	.22378	.24834	.27322	.29582	.31888	.34498	.37078	.39570	.41898
0.02	.17436	.18638	.19938	.21298	.22786	.24434	.26042	.27694	.29312	.31230	.32914	.34692	.36642	.38550	.40302	.42100	.44074	.46050	.47874	.49782
0.03	.28540	.29568	.30640	.31736	.32946	.34300	.35618	.36938	.38298	.39918	.41336	.42808	.44408	.45982	.47410	.48912	.50536	.52178	.53780	.55272
0.04	.37474	.38368	.39282	.40218	.41238	.42392	.43512	.44624	.45776	.47124	.48328	.49586	.50920	.52270	.53436	.54692	.56054	.57418	.58784	.60026
0.05	.44160	.44960	.45772	.46574	.47468	.48474	.49456	.50426	.51422	.52576	.53648	.54738	.55916	.57098	.58092	.59178	.60378	.61576	.62790	.63860
0.06	.49382	.50122	.50832	.51536	.52340	.53242	.54110	.54980	.55890	.56900	.57858	.58814	.59866	.60906	.61782	.62744	.63808	.64848	.65938	.66894
0.07	.53602	.54276	.54942	.55556	.56278	.57090	.57866	.58658	.59474	.60380	.61232	.62092	.63046	.63938	.64708	.65562	.66522	.67460	.68450	.69288
0.08	.57602	.58212	.58814	.59352	.60004	.60740	.61434	.62158	.62890	.63712	.64464	.65250	.66120	.66900	.67562	.68346	.69196	.70034	.70916	.71648
0.09	.60964	.61522	.62066	.62548	.63146	.63812	.64444	.65086	.65730	.66468	.67168	.67886	.68690	.69412	.70010	.70714	.71478	.72242	.73034	.73682
0.10	.64070	.64568	.65066	.65506	.66064	.66658	.67246	.67820	.68408	.69094	.69720	.70346	.71090	.71758	.72284	.72920	.73598	.74314	.75028	.75614
0.11	.66920	.67368	.67828	.68226	.68732	.69270	.69808	.70314	.70856	.71482	.72054	.72618	.73296	.73888	.74356	.74932	.75548	.76188	.76858	.77390
0.12	.69218	.69652	.70078	.70454	.70924	.71414	.71910	.72380	.72874	.73446	.73986	.74480	.75116	.75670	.76104	.76622	.77182	.77756	.78382	.78874
0.13	.71414	.71824	.72226	.72578	.73016	.73474	.73922	.74334	.74792	.75322	.75820	.76294	.76876	.77386	.77784	.78242	.78744	.79274	.79836	.80302
0.14	.73320	.73710	.74090	.74416	.74820	.75246	.75662	.76032	.76450	.76950	.77408	.77842	.78386	.78852	.79226	.79636	.80108	.80588	.81094	.81522
0.15	.75044	.75408	.75772	.76068	.76454	.76860	.77258	.77594	.77980	.78436	.78864	.79262	.79772	.80194	.80546	.80950	.81394	.81844	.82320	.82720
0.16	.76758	.77086	.77426	.77708	.78078	.78448	.78814	.79130	.79492	.79906	.80306	.80674	.81142	.81532	.81862	.82248	.82658	.83078	.83512	.83886
0.17	.78274	.78580	.78894	.79154	.79496	.79836	.80174	.80476	.80826	.81196	.81560	.81906	.82346	.82698	.82998	.83352	.83732	.84132	.84526	.84858
0.18	.79510	.79790	.80082	.80316	.80628	.80946	.81266	.81554	.81882	.82242	.82578	.82900	.83314	.83652	.83932	.84254	.84608	.84990	.85364	.85680
0.19	.80754	.81026	.81302	.81522	.81818	.82116	.82406	.82684	.82992	.83316	.83624	.83922	.84306	.84622	.84890	.85192	.85514	.85868	.86216	.86510
0.20	.81908	.82174	.82432	.82642	.82920	.83198	.83482	.83746	.84034	.84330	.84612	.84894	.85246	.85540	.85796	.86074	.86376	.86704	.87028	.87292

Powers of $CM - V$ Sequential test against Beta for $n = 50$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.05252	.10776	.16484	.22260	.28340	.33990	.39002	.44192	.48680	.53598	.57606	.61510	.64972	.68196	.70998	.73584	.76090	.78622	.80672
0.02	.48224	.50948	.53712	.56664	.59622	.62750	.65604	.68232	.70870	.73176	.75780	.77808	.79804	.81594	.83294	.84728	.86082	.87402	.88620	.89632
0.03	.65666	.67532	.69390	.71318	.73320	.75354	.77248	.78988	.80690	.82190	.83936	.85276	.86580	.87734	.88862	.89766	.90692	.91540	.92302	.92952
0.04	.75276	.76632	.77958	.79368	.80786	.82232	.83608	.84862	.86044	.87104	.88350	.89332	.90276	.91118	.91940	.92606	.93308	.93938	.94474	.94934
0.05	.82408	.83412	.84304	.85322	.86356	.87384	.88362	.89218	.90072	.90862	.91752	.92462	.93124	.93724	.94302	.94770	.95274	.95714	.96078	.96382
0.06	.86332	.87086	.87808	.88616	.89416	.90222	.90972	.91640	.92298	.92906	.93594	.94178	.94690	.95152	.95562	.95934	.96320	.96662	.96938	.97166
0.07	.89338	.89942	.90518	.91148	.91766	.92422	.92988	.93536	.94058	.94508	.95052	.95480	.95874	.96230	.96544	.96820	.97122	.97388	.97612	.97778
0.08	.91154	.91660	.92148	.92666	.93188	.93726	.94178	.94650	.95076	.95438	.95900	.96252	.96572	.96866	.97122	.97358	.97612	.97836	.98028	.98188
0.09	.92844	.93252	.93634	.94052	.94468	.94908	.95284	.95648	.95996	.96284	.96666	.96936	.97180	.97440	.97656	.97850	.98044	.98224	.98370	.98490
0.10	.93938	.94260	.94578	.94916	.95280	.95632	.95960	.96276	.96590	.96838	.97156	.97390	.97596	.97816	.97992	.98162	.98338	.98492	.98616	.98710
0.11	.95312	.95574	.95828	.96070	.96344	.96606	.96860	.97094	.97352	.97536	.97790	.97982	.98150	.98332	.98474	.98608	.98754	.98854	.98944	.99008
0.12	.95776	.96014	.96244	.96464	.96718	.96956	.97182	.97386	.97614	.97784	.98012	.98178	.98336	.98502	.98630	.98748	.98868	.98980	.99060	.99124
0.13	.96106	.96322	.96534	.96730	.96958	.97184	.97394	.97588	.97794	.97952	.98160	.98322	.98476	.98632	.98752	.98866	.98968	.99072	.99144	.99210
0.14	.96522	.96716	.96906	.97070	.97284	.97486	.97676	.97852	.98024	.98164	.98356	.98492	.98638	.98776	.98882	.98986	.99080	.99178	.99246	.99296
0.15	.96910	.97072	.97238	.97384	.97580	.97752	.97924	.98082	.98230	.98382	.98530	.98654	.98776	.98910	.99004	.99094	.99182	.99272	.99336	.99384
0.16	.97270	.97414	.97554	.97684	.97866	.98018	.98178	.98316	.98440	.98544	.98700	.98814	.98912	.99024	.99110	.99200	.99274	.99358	.99416	.99460
0.17	.97488	.97622	.97752	.97870	.98042	.98188	.98338	.98454	.98566	.98656	.98806	.98908	.98996	.99096	.99174	.99260	.99330	.99408	.99464	.99504
0.18	.97902	.98018	.98120	.98224	.98376	.98498	.98620	.98718	.98810	.98888	.99004	.99096	.99174	.99254	.99326	.99394	.99444	.99506	.99554	.99586
0.19	.98208	.98308	.98400	.98492	.98618	.98732	.98840	.98926	.98998	.99060	.99160	.99242	.99308	.99376	.99430	.99480	.99528	.99574	.99610	.99640
0.20	.98346	.98438	.98518	.98602	.98718	.98828	.98930	.99016	.99076	.99130	.99228	.99302	.99366	.99432	.99482	.99526	.99572	.99612	.99644	.99676

Table 5.19 Power tables of $CM - V$ against Beta ditribution

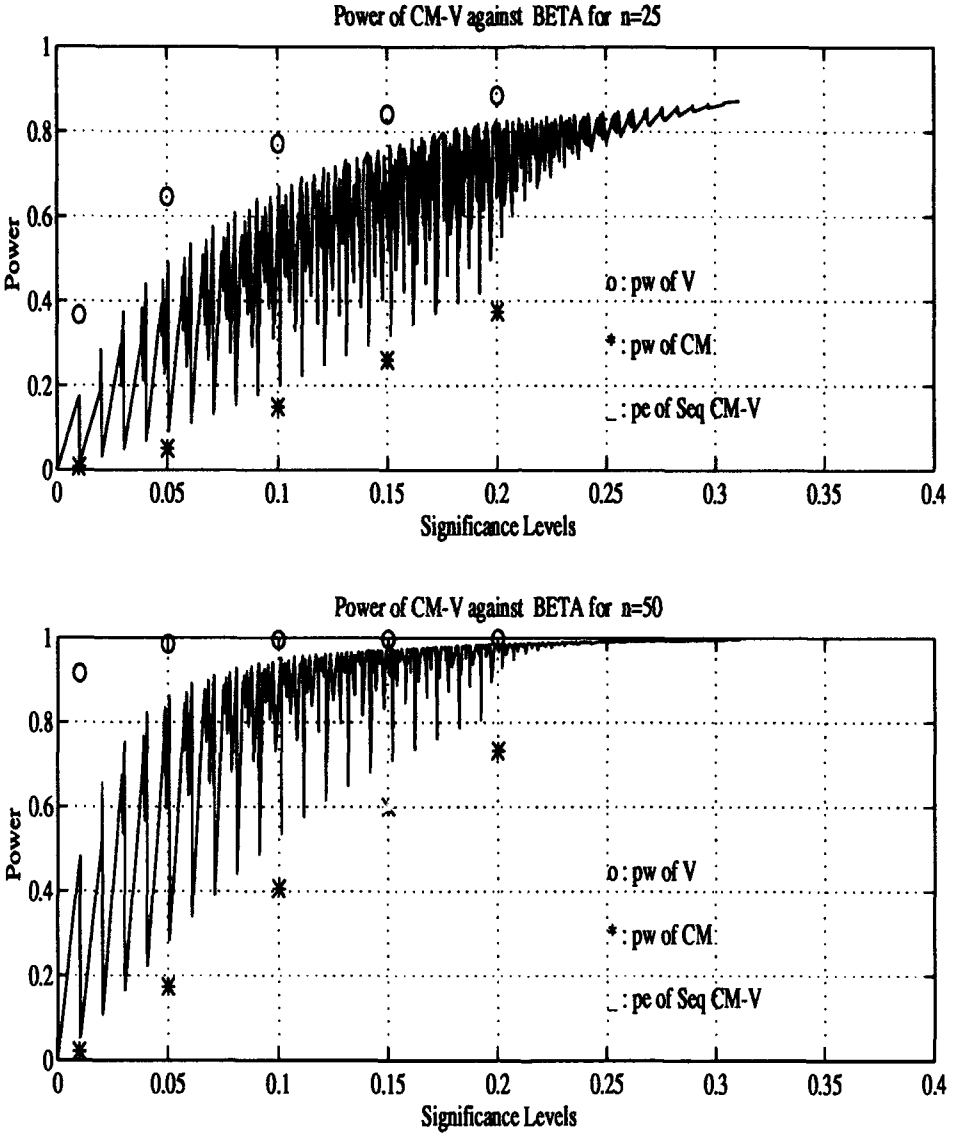

Figure 5.3 Power comparisons of $CM - V$ against Beta

Powers of $CM - V$ Sequential test against Gamma for $n = 25$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.06800	.12690	.17798	.22396	.26548	.30596	.34312	.37694	.41218	.44282	.47038	.49776	.52502	.54826	.57150	.59550	.61786	.63876	.65812
0.02	.15860	.21084	.25728	.29850	.33596	.36948	.40248	.43354	.46126	.49096	.51624	.53950	.56192	.58508	.60424	.62354	.64350	.66246	.67956	.69548
0.03	.26356	.30656	.34496	.38010	.41218	.44042	.46870	.49596	.51996	.54564	.56776	.58824	.60794	.62802	.64462	.66118	.67858	.69516	.71006	.72408
0.04	.35020	.38590	.41794	.44772	.47548	.49982	.52418	.54776	.56880	.59092	.61040	.62794	.64534	.66312	.67794	.69246	.70802	.72302	.73604	.74826
0.05	.41752	.44784	.47492	.50048	.52430	.54516	.56688	.58772	.60630	.62588	.64320	.65896	.67444	.69038	.70378	.71652	.73044	.74404	.75600	.76736
0.06	.46858	.49566	.51972	.54246	.56320	.58152	.60128	.62016	.63676	.65442	.66984	.68394	.69816	.71272	.72498	.73666	.74950	.76186	.77296	.78296
0.07	.50918	.53346	.55496	.57512	.59390	.61050	.62858	.64622	.66130	.67744	.69142	.70436	.71750	.73098	.74202	.75266	.76432	.77558	.78596	.79532
0.08	.54824	.57012	.58930	.60724	.62422	.63924	.65552	.67166	.68562	.69996	.71276	.72434	.73640	.74886	.75900	.76872	.77956	.79002	.79952	.80796
0.09	.58120	.60112	.61864	.63492	.65044	.66420	.67900	.69360	.70632	.71944	.73104	.74156	.75264	.76426	.77364	.78266	.79264	.80246	.81104	.81894
0.10	.61312	.63080	.64644	.66108	.67514	.68748	.70096	.71436	.72590	.73778	.74850	.75820	.76856	.77906	.78776	.79610	.80560	.81476	.82260	.82992
0.11	.64102	.65698	.67106	.68436	.69692	.70818	.72022	.73232	.74282	.75376	.76378	.77256	.78200	.79162	.79964	.80734	.81622	.82480	.83210	.83888
0.12	.66412	.67840	.69104	.70330	.71474	.72516	.73610	.74742	.75712	.76730	.77670	.78494	.79374	.80262	.81024	.81728	.82566	.83376	.84052	.84694
0.13	.68504	.69818	.70978	.72096	.73156	.74122	.75116	.76176	.77086	.78004	.78880	.79658	.80486	.81306	.82022	.82676	.83452	.84228	.84850	.85460
0.14	.70596	.71788	.72854	.73860	.74832	.75718	.76622	.77584	.78436	.79278	.80082	.80804	.81584	.82350	.83030	.83638	.84368	.85104	.85674	.86248
0.15	.72546	.73640	.74620	.75552	.76430	.77248	.78104	.78974	.79738	.80530	.81278	.81962	.82698	.83402	.84000	.84546	.85248	.85936	.86474	.87016
0.16	.74388	.75396	.76262	.77092	.77890	.78626	.79424	.80232	.80942	.81676	.82370	.82984	.83662	.84318	.84868	.85384	.86042	.86684	.87180	.87686
0.17	.76096	.77018	.77800	.78568	.79300	.79990	.80694	.81446	.82116	.82758	.83402	.83984	.84618	.85228	.85736	.86224	.86832	.87428	.87878	.88344
0.18	.77518	.78362	.79086	.79776	.80452	.81090	.81746	.82452	.83080	.83672	.84270	.84818	.85418	.85968	.86464	.86928	.87492	.88040	.88462	.88896
0.19	.78750	.79548	.80210	.80848	.81472	.82060	.82682	.83354	.83934	.84490	.85050	.85564	.86130	.86666	.87120	.87560	.88082	.88598	.88984	.89386
0.20	.79982	.80732	.81332	.81922	.82484	.83028	.83592	.84202	.84734	.85246	.85774	.86262	.86802	.87310	.87726	.88142	.88622	.89102	.89462	.89842

Powers of $CM - V$ Sequential test against Gamma for $n = 50$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.21208	.34838	.45260	.53574	.60470	.66186	.70642	.74538	.77734	.80768	.83164	.85320	.87122	.88668	.89844	.91044	.92120	.93064	.93896
0.02	.43734	.55342	.62970	.68632	.73234	.77166	.80336	.82810	.84922	.86778	.88550	.89964	.91208	.92214	.93098	.93784	.94830	.95688	.96442	.96182
0.03	.61482	.69272	.74606	.78486	.81612	.84252	.86350	.88074	.89526	.90794	.91950	.93002	.93844	.94510	.95102	.95544	.96088	.96460	.96850	.97196
0.04	.71312	.77096	.81020	.83930	.86286	.88216	.89768	.90990	.92068	.92992	.93864	.94652	.95300	.95796	.96220	.96562	.96968	.97234	.97534	.97794
0.05	.78834	.82998	.85892	.87986	.89704	.91194	.92324	.93238	.94052	.94778	.95410	.96044	.96504	.96892	.97196	.97458	.97788	.97962	.98184	.98360
0.06	.83590	.86808	.89036	.90654	.91994	.93152	.94006	.94706	.95328	.95898	.96350	.96638	.97202	.97502	.97746	.97954	.98202	.98326	.98498	.98636
0.07	.86900	.89492	.91290	.92546	.93602	.94518	.95212	.95734	.96204	.96678	.97050	.97472	.97758	.97996	.98188	.98342	.98524	.98622	.98768	.98866
0.08	.89698	.91730	.93166	.94132	.94962	.95670	.96202	.96606	.96974	.97378	.97678	.97988	.98238	.98408	.98564	.98674	.98832	.98914	.99030	.99100
0.09	.91578	.93216	.94414	.95124	.95820	.96428	.96824	.97146	.97430	.97772	.98030	.98300	.98516	.98660	.98790	.98890	.99040	.99110	.99186	.99254
0.10	.93182	.94506	.95506	.96094	.96630	.97112	.97418	.97646	.97882	.98154	.98366	.98562	.98758	.98880	.98986	.99066	.99186	.99246	.99320	.99378
0.11	.94306	.95394	.96230	.96736	.97188	.97614	.97864	.98058	.98244	.98462	.98628	.98782	.98958	.99054	.99142	.99202	.99304	.99364	.99422	.99470
0.12	.94986	.95938	.96704	.97148	.97558	.97914	.98132	.98312	.98478	.98680	.98810	.98924	.99066	.99146	.99232	.99270	.99368	.99424	.99476	.99516
0.13	.95688	.96524	.97178	.97550	.97900	.98190	.98382	.98536	.98680	.98844	.98958	.99070	.99196	.99268	.99340	.99370	.99446	.99498	.99532	.99570
0.14	.96154	.96894	.97466	.97804	.98112	.98368	.98540	.98686	.98814	.98952	.99054	.99146	.99250	.99310	.99378	.99404	.99480	.99528	.99560	.99596
0.15	.96580	.97232	.97746	.98048	.98322	.98550	.98706	.98838	.98946	.99064	.99158	.99246	.99326	.99386	.99452	.99474	.99540	.99586	.99618	.99656
0.16	.96834	.97434	.97922	.98202	.98458	.98666	.98816	.98940	.99034	.99130	.99204	.99292	.99366	.99426	.99490	.99512	.99578	.99624	.99656	.99692
0.17	.97038	.97598	.98058	.98328	.98560	.98756	.98892	.99008	.99086	.99178	.99240	.99324	.99394	.99454	.99516	.99538	.99598	.99644	.99676	.99712
0.18	.97482	.97954	.98344	.98570	.98764	.98930	.99046	.99148	.99218	.99290	.99348	.99420	.99478	.99528	.99584	.99598	.99644	.99678	.99706	.99742
0.19	.98110	.98480	.98782	.98942	.99084	.99214	.99310	.99386	.99438	.99496	.99534	.99582	.99624	.99664	.99704	.99710	.99744	.99762	.99782	.99788
0.20	.98348	.98686	.98940	.99074	.99198	.99306	.99382	.99448	.99484	.99540	.99578	.99624	.99664	.99700	.99740	.99744	.99778	.99790	.99810	.99820

Table 5.20 Power tables of $CM - V$ against Gamma ditribution

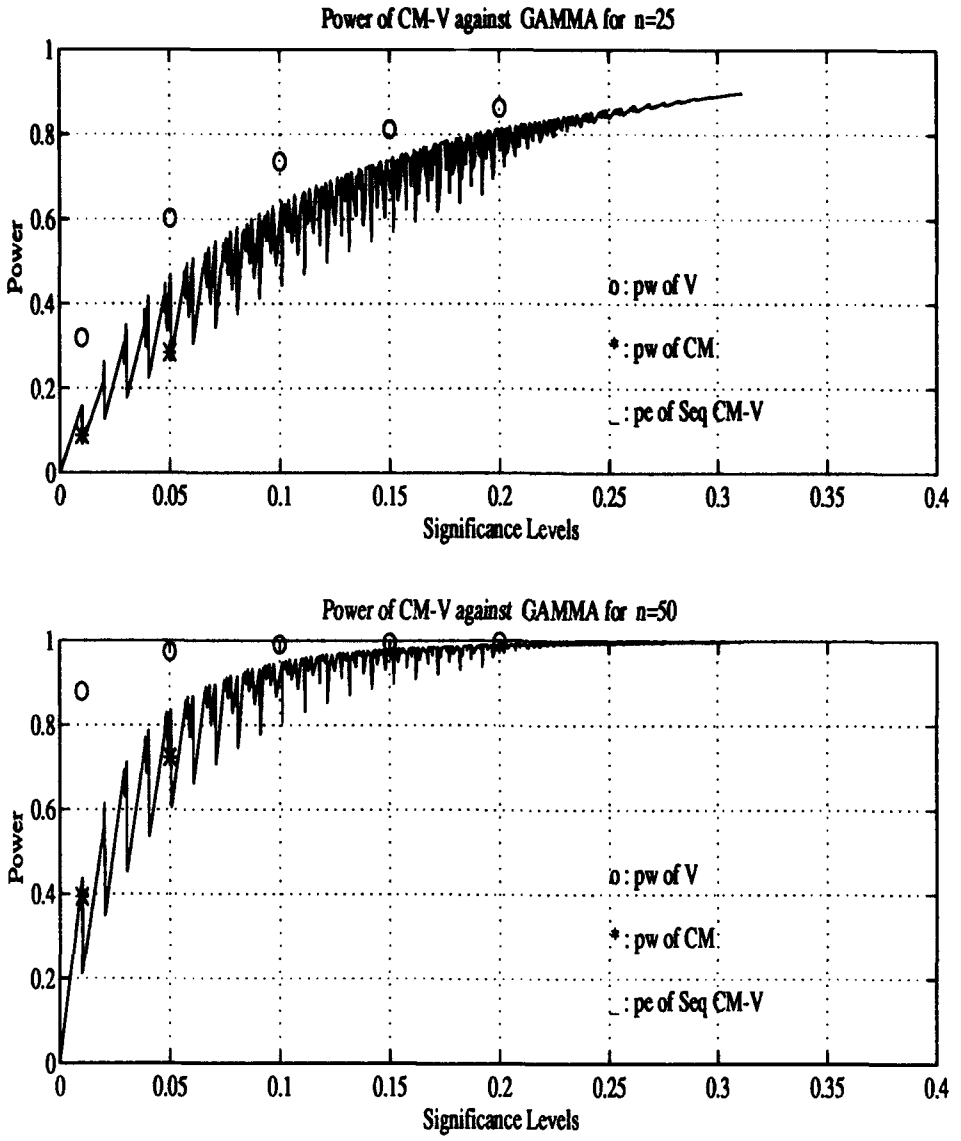

Figure 5.4 Power comparisons of $CM - V$ against Gamma

Powers of $CM - V$ Sequential test against Weibull for $n = 25$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00676	.01470	.02414	.03526	.04622	.05964	.07248	.08610	.10096	.11676	.13450	.15222	.17064	.18824	.20650	.22732	.24860	.26902	.29032
0.02	.11160	.11722	.12358	.13156	.14022	.14898	.15960	.16954	.18082	.19304	.20548	.21968	.23368	.24860	.26324	.27830	.29496	.31160	.32772	.34432
0.03	.19212	.19710	.20252	.20952	.21684	.22452	.23358	.24228	.25180	.26228	.27258	.28466	.29660	.30946	.32206	.33482	.34898	.36322	.37652	.39036
0.04	.26220	.26684	.27166	.27776	.28418	.29084	.29862	.30620	.31442	.32356	.33262	.34280	.35310	.36422	.37522	.38608	.39812	.41066	.42190	.43378
0.05	.32074	.32504	.32926	.33460	.34026	.34614	.35296	.35958	.36682	.37474	.38292	.39230	.40130	.41108	.42064	.43034	.44102	.45164	.46138	.47148
0.06	.36524	.36924	.37318	.37822	.38352	.38906	.39522	.40120	.40776	.41488	.42232	.43076	.43880	.44758	.45634	.46510	.47488	.48440	.49308	.50196
0.07	.40252	.40630	.41006	.41478	.41966	.42478	.43034	.43578	.44184	.44848	.45520	.46284	.46988	.47788	.48588	.49400	.50304	.51162	.51986	.52762
0.08	.43962	.44310	.44668	.45096	.45538	.46004	.46534	.47020	.47584	.48212	.48824	.49514	.50144	.50860	.51600	.52338	.53150	.53926	.54648	.55374
0.09	.47180	.47514	.47844	.48242	.48654	.49088	.49582	.50024	.50548	.51116	.51694	.52326	.52910	.53578	.54270	.54958	.55714	.56402	.57070	.57734
0.10	.50326	.50640	.50948	.51322	.51718	.52136	.52588	.52998	.53476	.54000	.54520	.55118	.55648	.56274	.56906	.57540	.58224	.58856	.59460	.60058
0.11	.53354	.53642	.53928	.54286	.54650	.55024	.55444	.55824	.56266	.56734	.57210	.57754	.58238	.58824	.59402	.59968	.60596	.61172	.61726	.62256
0.12	.55720	.55988	.56258	.56592	.56926	.57296	.57692	.58042	.58458	.58888	.59328	.59836	.60300	.60848	.61382	.61912	.62480	.63008	.63524	.64030
0.13	.58024	.58278	.58538	.58866	.59178	.59534	.59912	.60236	.60626	.61032	.61434	.61898	.62338	.62842	.63334	.63822	.64348	.64838	.65334	.65790
0.14	.60090	.60336	.60584	.60892	.61190	.61520	.61860	.62166	.62538	.62926	.63296	.63730	.64140	.64596	.65066	.65518	.65994	.66462	.66918	.67336
0.15	.62106	.62340	.62576	.62870	.63154	.63474	.63794	.64086	.64436	.64802	.65150	.65556	.65954	.66382	.66810	.67220	.67652	.68094	.68508	.68890
0.16	.64160	.64384	.64608	.64884	.65144	.65446	.65746	.66018	.66350	.66686	.67006	.67396	.67748	.68134	.68524	.68918	.69322	.69742	.70128	.70472
0.17	.65864	.66080	.66294	.66556	.66790	.67078	.67366	.67624	.67942	.68262	.68556	.68934	.69262	.69618	.69990	.70366	.70754	.71156	.71518	.71846
0.18	.67398	.67604	.67808	.68054	.68276	.68544	.68824	.69070	.69374	.69680	.69962	.70316	.70632	.70974	.71328	.71684	.72058	.72444	.72778	.73084
0.19	.69040	.69228	.69412	.69624	.69838	.70086	.70348	.70588	.70884	.71178	.71438	.71766	.72060	.72392	.72732	.73072	.73416	.73770	.74084	.74372
0.20	.70462	.70638	.70814	.71016	.71214	.71446	.71700	.71922	.72206	.72474	.72720	.73042	.73322	.73642	.73958	.74292	.74610	.74944	.75236	.75504

Powers of $CM - V$ Sequential test against Weibull for $n = 50$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01570	.03662	.06270	.09344	.12722	.16292	.19836	.23838	.27278	.31298	.34848	.38608	.42158	.45556	.48834	.51812	.54822	.58068	.60788
0.02	.32892	.33930	.35284	.37086	.39116	.41340	.43684	.46028	.48640	.50860	.53548	.55928	.58300	.60538	.62738	.64834	.66734	.68636	.70658	.72330
0.03	.49052	.49816	.50846	.52210	.53734	.55448	.57222	.58950	.60928	.62562	.64558	.66286	.68008	.69706	.71352	.72884	.74290	.75728	.77228	.78432
0.04	.58936	.59550	.60368	.61478	.62760	.64172	.65606	.66970	.68562	.69896	.71466	.72816	.74214	.75596	.76888	.78112	.79234	.80328	.81492	.82436
0.05	.65960	.66472	.67138	.68066	.69120	.70316	.71532	.72674	.74016	.75130	.76368	.77482	.78668	.79828	.80902	.81860	.82804	.83670	.84630	.85364
0.06	.71384	.71798	.72374	.73128	.74014	.75018	.76064	.77016	.78152	.79084	.80146	.81076	.82048	.82992	.83886	.84688	.85460	.86176	.86982	.87610
0.07	.75688	.76046	.76514	.77176	.77946	.78800	.79706	.80488	.81450	.82242	.83102	.83892	.84696	.85498	.86242	.86938	.87612	.88216	.88894	.89400
0.08	.79168	.79470	.79868	.80428	.81086	.81816	.82576	.83260	.84070	.84758	.85486	.86148	.86838	.87524	.88156	.88746	.89304	.89828	.90414	.90844
0.09	.81904	.82174	.82526	.82986	.83578	.84222	.84884	.85480	.86182	.86764	.87398	.87958	.88566	.89142	.89686	.90186	.90666	.91116	.91634	.92008
0.10	.84054	.84274	.84580	.84990	.85516	.86078	.86672	.87200	.87816	.88328	.88896	.89404	.89930	.90436	.90902	.91352	.91764	.92154	.92600	.92918
0.11	.86000	.86188	.86452	.86824	.87294	.87782	.88302	.88760	.89306	.89742	.90240	.90702	.91160	.91594	.92002	.92398	.92774	.93120	.93520	.93804
0.12	.87544	.87716	.87958	.88284	.88718	.89150	.89600	.89998	.90494	.90888	.91332	.91736	.92142	.92530	.92902	.93258	.93594	.93918	.94282	.94526
0.13	.88862	.89020	.89232	.89516	.89906	.90302	.90698	.91060	.91510	.91856	.92260	.92618	.92978	.93334	.93640	.93968	.94268	.94554	.94870	.95088
0.14	.89952	.90082	.90274	.90526	.90882	.91242	.91604	.91940	.92338	.92650	.93006	.93322	.93660	.93974	.94258	.94556	.94830	.95102	.95384	.95580
0.15	.91056	.91176	.91338	.91560	.91860	.92202	.92510	.92804	.93160	.93448	.93770	.94054	.94366	.94650	.94900	.95160	.95410	.95648	.95908	.96080
0.16	.92018	.92116	.92256	.92440	.92708	.93020	.93294	.93554	.93866	.94118	.94412	.94674	.94950	.95186	.95430	.95666	.95900	.96108	.96334	.96490
0.17	.92820	.92904	.93030	.93194	.93438	.93720	.93972	.94210	.94496	.94712	.94984	.95218	.95468	.95680	.95898	.96104	.96312	.96500	.96710	.96846
0.18	.93614	.93694	.93802	.93948	.94178	.94422	.94650	.94860	.95116	.95300	.95542	.95752	.95982	.96170	.96370	.96560	.96754	.96918	.97096	.97212
0.19	.94146	.94218	.94314	.94450	.94652	.94880	.95096	.95282	.95526	.95688	.95908	.96104	.96310	.96484	.96672	.96836	.97022	.97168	.97332	.97430
0.20	.94816	.94884	.94968	.95090	.95272	.95474	.95662	.95824	.96038	.96186	.96374	.96550	.96726	.96878	.97050	.97192	.97362	.97482	.97626	.97710

Table 5.21 Power tables of $CM - V$ against Weibull ditribution

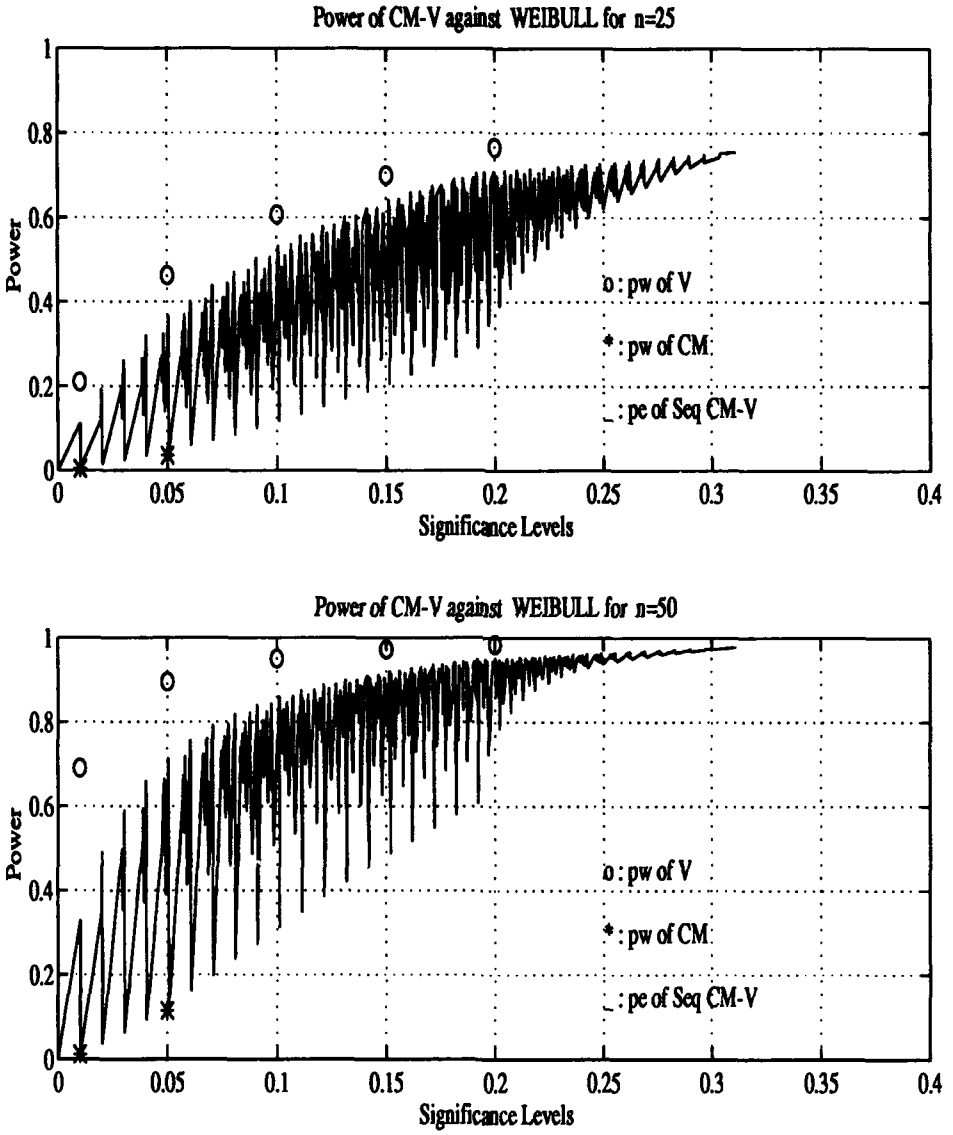

Figure 5.5 Power comparisons of $CM - V$ against Weibull

Powers of $CM(Ref) - V$ Sequential test against Cauchy for $n = 25$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01032	.01952	.03068	.04126	.05196	.06178	.07166	.08176	.09118	.10172	.11296	.12374	.13324	.14256	.15304	.16296	.17304	.18268	.19288
0.02	.01030	.01962	.02814	.03876	.04888	.05910	.06864	.07826	.08802	.09722	.10758	.11862	.12924	.13862	.14782	.15810	.16786	.17784	.18740	.19748
0.03	.02108	.02930	.03720	.04706	.05670	.06646	.07570	.08498	.09454	.10352	.11364	.12442	.13486	.14412	.15306	.16316	.17290	.18272	.19216	.20212
0.04	.03172	.03874	.04592	.05520	.06458	.07396	.08296	.09198	.10128	.11000	.11992	.13046	.14072	.14970	.15854	.16834	.17804	.18772	.19698	.20672
0.05	.04144	.04770	.05434	.06302	.07192	.08096	.08970	.09838	.10750	.11604	.12560	.13590	.14590	.15462	.16330	.17306	.18260	.19222	.20136	.21104
0.06	.05168	.05738	.06340	.07150	.07994	.08840	.09670	.10516	.11406	.12236	.13182	.14190	.15168	.16020	.16864	.17824	.18758	.19702	.20600	.21580
0.07	.06096	.06622	.07180	.07928	.08728	.09530	.10328	.11144	.12010	.12822	.13756	.14742	.15708	.16534	.17368	.18312	.19232	.20166	.21052	.21996
0.08	.07060	.07530	.08040	.08742	.09510	.10266	.11032	.11824	.12654	.13456	.14360	.15318	.16260	.17072	.17876	.18800	.19702	.20632	.21506	.22436
0.09	.08088	.08520	.08968	.09622	.10322	.11060	.11786	.12554	.13356	.14130	.15004	.15936	.16858	.17646	.18436	.19340	.20232	.21154	.22014	.22932
0.10	.09082	.09460	.09864	.10464	.11120	.11824	.12516	.13258	.14032	.14780	.15634	.16544	.17442	.18214	.18996	.19886	.20764	.21678	.22512	.23404
0.11	.10114	.10430	.10788	.11344	.11962	.12638	.13300	.14008	.14766	.15482	.16294	.17186	.18070	.18826	.19582	.20450	.21302	.22198	.23014	.23888
0.12	.11090	.11376	.11694	.12208	.12796	.13422	.14056	.14740	.15470	.16152	.16932	.17802	.18672	.19412	.20134	.20984	.21816	.22698	.23498	.24360
0.13	.12028	.12284	.12584	.13052	.13614	.14200	.14794	.15454	.16162	.16836	.17586	.18440	.19282	.20008	.20716	.21558	.22362	.23216	.23994	.24832
0.14	.13090	.13320	.13590	.14018	.14546	.15102	.15668	.16296	.16978	.17622	.18346	.19168	.19982	.20696	.21380	.22204	.22990	.23830	.24598	.25416
0.15	.14100	.14310	.14546	.14932	.15428	.15948	.16488	.17084	.17734	.18338	.19038	.19834	.20632	.21328	.21990	.22794	.23564	.24390	.25142	.25946
0.16	.15166	.15358	.15570	.15932	.16394	.16872	.17376	.17944	.18570	.19144	.19812	.20582	.21348	.22028	.22680	.23462	.24214	.25026	.25758	.26544
0.17	.16196	.16374	.16562	.16896	.17324	.17782	.18256	.18786	.19390	.19938	.20578	.21308	.22060	.22706	.23332	.24094	.24822	.25614	.26328	.27104
0.18	.17204	.17366	.17538	.17850	.18258	.18686	.19134	.19646	.20232	.20752	.21368	.22072	.22800	.23426	.24044	.24784	.25502	.26272	.26970	.27736
0.19	.18244	.18394	.18554	.18840	.19198	.19608	.20020	.20518	.21076	.21570	.22156	.22844	.23552	.24160	.24762	.25482	.26170	.26916	.27600	.28346
0.20	.19146	.19284	.19430	.19698	.20020	.20402	.20784	.21262	.21792	.22260	.22828	.23504	.24198	.24796	.25380	.26078	.26740	.27472	.28140	.28882

Powers of $CM(Ref) - V$ Sequential test against Cauchy for $n = 50$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00912	.01864	.02940	.03948	.04996	.06060	.06976	.07984	.08922	.10098	.11122	.12050	.12956	.13820	.14726	.15742	.16730	.17754	.18706
0.02	.01038	.01850	.02734	.03752	.04716	.05712	.06744	.07638	.08628	.09548	.10696	.11702	.12608	.13496	.14344	.15238	.16248	.17216	.18226	.19154
0.03	.02014	.02732	.03540	.04506	.05416	.06380	.07376	.08248	.09208	.10094	.11210	.12192	.13080	.13944	.14782	.15666	.16656	.17606	.18600	.19518
0.04	.03040	.03678	.04418	.05346	.06202	.07128	.08084	.08930	.09856	.10716	.11796	.12740	.13614	.14462	.15286	.16160	.17126	.18070	.19046	.19946
0.05	.04110	.04680	.05376	.06230	.07024	.07898	.08806	.09628	.10514	.11338	.12388	.13302	.14150	.14980	.15786	.16640	.17588	.18522	.19484	.20376
0.06	.05194	.05698	.06314	.07084	.07838	.08676	.09538	.10338	.11194	.11998	.13026	.13914	.14750	.15544	.16338	.17174	.18104	.19030	.19980	.20856
0.07	.06136	.06592	.07158	.07878	.08598	.09414	.10238	.11018	.11850	.12636	.13632	.14506	.15334	.16106	.16874	.17700	.18606	.19512	.20436	.21302
0.08	.07088	.07510	.08022	.08704	.09398	.10176	.10972	.11728	.12524	.13292	.14264	.15112	.15924	.16682	.17436	.18250	.19142	.20034	.20950	.21796
0.09	.08064	.08434	.08892	.09532	.10188	.10926	.11702	.12426	.13188	.13930	.14870	.15690	.16446	.17222	.17956	.18752	.19620	.20500	.21404	.22236
0.10	.08978	.09324	.09752	.10360	.10976	.11670	.12406	.13106	.13834	.14554	.15484	.16286	.17068	.17780	.18492	.19276	.20120	.20984	.21882	.22696
0.11	.10106	.10426	.10806	.11356	.11922	.12566	.13252	.13910	.14620	.15308	.16208	.17030	.17830	.18576	.19324	.20124	.20980	.21856	.22728	.23520
0.12	.11104	.11396	.11738	.12256	.12780	.13400	.14046	.14678	.15360	.16028	.16900	.17648	.18380	.19070	.19754	.20494	.21310	.22126	.22976	.23750
0.13	.12028	.12274	.12588	.13058	.13552	.14144	.14770	.15386	.16036	.16690	.17534	.18246	.18966	.19644	.20310	.21032	.21822	.22622	.23486	.24226
0.14	.12952	.13178	.13466	.13898	.14358	.14914	.15504	.16100	.16724	.17352	.18174	.18872	.19580	.20230	.20880	.21578	.22350	.23134	.23946	.24694
0.15	.13934	.14136	.14396	.14792	.15236	.15762	.16332	.16894	.17494	.18096	.18894	.19572	.20256	.20892	.21524	.22216	.22970	.23726	.24528	.25254
0.16	.14886	.15076	.15306	.15668	.16086	.16586	.17126	.17674	.18256	.18834	.19606	.20268	.20924	.21550	.22150	.22824	.23562	.24300	.25082	.25778
0.17	.15896	.16054	.16258	.16588	.16966	.17440	.17960	.18482	.19046	.19606	.20344	.20976	.21610	.22216	.22786	.23436	.24162	.24886	.25648	.26346
0.18	.16916	.17062	.17258	.17562	.17910	.18346	.18832	.19334	.19852	.20388	.21086	.21706	.22308	.22900	.23458	.24092	.24792	.25504	.26244	.26930
0.19	.17966	.18100	.18276	.18554	.18872	.19286	.19748	.20212	.20702	.21214	.21896	.22502	.23084	.23654	.24184	.24792	.25476	.26164	.26884	.27546
0.20	.19018	.19146	.19308	.19550	.19840	.20232	.20662	.21106	.21562	.22044	.22692	.23274	.23836	.24388	.24902	.25492	.26156	.26826	.27544	.28192

Table 5.22 Power tables of $CM(Ref) - V$ against Cauchy ditribution

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 25$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10544	.18490	.25730	.31716	.36786	.41076	.44586	.48234	.51346	.54328	.56816	.59110	.61228	.63150	.65082	.66740	.68696	.70266	.71712
0.02	.09558	.18208	.25010	.31280	.36662	.41244	.45214	.48422	.51740	.54594	.57338	.59650	.61780	.63726	.65500	.67298	.68828	.70632	.72084	.73426
0.03	.16662	.23792	.29690	.35238	.40094	.44324	.47996	.50986	.54106	.56778	.59318	.61492	.63492	.65318	.66992	.68706	.70144	.71632	.73234	.74500
0.04	.23158	.29040	.34072	.38920	.43278	.47140	.50506	.53302	.56216	.58720	.61108	.63156	.65030	.66772	.68338	.69958	.71332	.72966	.74296	.75492
0.05	.28282	.33280	.37624	.41956	.45910	.49452	.52552	.55154	.57892	.60246	.62506	.64440	.66252	.67908	.69400	.70950	.72256	.73814	.75094	.76256
0.06	.32618	.37088	.40840	.44712	.48278	.51556	.54450	.56858	.59414	.61626	.63762	.65606	.67334	.68920	.70332	.71816	.73078	.74588	.75828	.76928
0.07	.36298	.40024	.43366	.46836	.50142	.53156	.55866	.58132	.60546	.62668	.64718	.66488	.68166	.69682	.71054	.72496	.73704	.75170	.76354	.77436
0.08	.39508	.42902	.45766	.48856	.51932	.54760	.57312	.59458	.61748	.63776	.65736	.67424	.69024	.70466	.71786	.73162	.74338	.75752	.76902	.77962
0.09	.42366	.45628	.48178	.50932	.53778	.56356	.58724	.60740	.62914	.64860	.66724	.68338	.69888	.71282	.72552	.73884	.75016	.76384	.77492	.78512
0.10	.45918	.48308	.50494	.52920	.55536	.57896	.60116	.61990	.64038	.65894	.67676	.69196	.70676	.71974	.73188	.74466	.75560	.76870	.77946	.78942
0.11	.48730	.50876	.52824	.54998	.57374	.59524	.61570	.63298	.65182	.66914	.68572	.70040	.71452	.72694	.73874	.75100	.76142	.77398	.78440	.79400
0.12	.51104	.53014	.54710	.56680	.58866	.60830	.62722	.64336	.66110	.67756	.69342	.70742	.72088	.73288	.74442	.75638	.76646	.77868	.78878	.79820
0.13	.53554	.55224	.56732	.58468	.60422	.62230	.63986	.65496	.67154	.68704	.70188	.71516	.72776	.73932	.75028	.76182	.77160	.78342	.79328	.80240
0.14	.55734	.57234	.58548	.60104	.61888	.63532	.65146	.66556	.68106	.69574	.70978	.72276	.73484	.74600	.75632	.76742	.77682	.78834	.79784	.80666
0.15	.57716	.59090	.60264	.61662	.63262	.64782	.66276	.67572	.69004	.70370	.71716	.72960	.74112	.75196	.76184	.77250	.78154	.79280	.80196	.81036
0.16	.59742	.60998	.62054	.63286	.64728	.66100	.67458	.68646	.69996	.71292	.72550	.73712	.74798	.75846	.76790	.77798	.78658	.79744	.80622	.81436
0.17	.61534	.62676	.63632	.64752	.66028	.67272	.68522	.69624	.70908	.72112	.73302	.74396	.75424	.76428	.77332	.78304	.79132	.80178	.81030	.81806
0.18	.63096	.64126	.64994	.65996	.67170	.68314	.69476	.70510	.71722	.72872	.73988	.75044	.76036	.77002	.77862	.78796	.79600	.80594	.81420	.82164
0.19	.64658	.65590	.66380	.67300	.68380	.69416	.70506	.71458	.72580	.73648	.74708	.75686	.76634	.77546	.78360	.79262	.80040	.81002	.81806	.82534
0.20	.66114	.66978	.67696	.68524	.69508	.70444	.71466	.72342	.73400	.74402	.75396	.76326	.77228	.78092	.78866	.79726	.80478	.81414	.82174	.82876

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 50$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.29024	.45460	.56558	.65008	.70988	.75988	.79320	.82714	.84758	.86908	.88358	.89874	.91106	.92106	.92954	.93760	.94332	.94776	.95222
0.02	.28278	.46816	.57986	.65868	.72044	.76496	.80364	.82942	.85604	.87350	.89118	.90224	.91486	.92464	.93296	.93964	.94666	.95142	.95540	.95920
0.03	.42718	.56032	.64560	.70822	.75840	.79492	.82698	.84904	.87240	.88796	.90364	.91338	.92450	.93332	.94084	.94668	.95378	.95898	.96058	.96426
0.04	.52372	.62346	.68988	.74082	.78252	.81444	.84214	.86166	.88304	.89640	.91070	.91984	.93008	.93804	.94468	.95000	.95558	.95954	.96282	.96622
0.05	.60150	.67670	.73032	.77074	.80514	.83184	.85536	.87236	.89138	.90412	.91730	.92566	.93498	.94226	.94792	.95280	.95792	.96156	.96476	.96790
0.06	.65756	.72006	.76192	.79482	.82438	.84750	.86772	.88266	.89946	.91142	.92328	.93106	.93896	.94582	.95110	.95548	.96020	.96346	.96644	.96924
0.07	.70048	.75112	.78602	.81366	.83818	.85836	.87646	.89004	.90526	.91646	.92724	.93450	.94196	.94828	.95318	.95734	.96190	.96514	.96786	.97052
0.08	.73478	.77674	.80660	.82998	.85080	.86836	.88418	.89610	.91002	.92030	.93056	.93736	.94438	.95036	.95496	.95884	.96324	.96648	.96902	.97152
0.09	.76280	.79848	.82410	.84418	.86252	.87798	.89210	.90304	.91550	.92498	.93426	.94046	.94710	.95270	.95708	.96070	.96496	.96802	.97048	.97296
0.10	.78682	.81752	.83870	.85604	.87228	.88580	.89862	.90884	.92048	.92930	.93756	.94326	.94948	.95460	.95878	.96228	.96628	.96918	.97164	.97406
0.11	.81296	.83866	.85600	.87078	.88432	.89586	.90714	.91634	.92598	.93406	.94120	.94654	.95202	.95670	.96054	.96360	.96732	.96992	.97230	.97454
0.12	.83198	.85412	.86890	.88218	.89316	.90334	.91334	.92154	.93040	.93760	.94418	.94928	.95460	.95906	.96206	.96536	.96870	.97128	.97354	.97580
0.13	.84644	.86572	.87886	.89038	.90014	.90940	.91808	.92552	.93348	.94012	.94644	.95126	.95638	.96056	.96388	.96624	.96932	.97186	.97408	.97608
0.14	.86128	.87870	.88998	.89958	.90776	.91588	.92368	.93018	.93756	.94328	.94928	.95386	.95840	.96224	.96530	.96752	.97056	.97286	.97500	.97692
0.15	.87328	.88844	.89878	.90730	.91450	.92174	.92860	.93442	.94088	.94614	.95160	.95586	.96018	.96382	.96674	.96890	.97172	.97388	.97588	.97764
0.16	.88488	.89824	.90668	.91432	.92060	.92726	.93344	.93848	.94438	.94942	.95406	.95800	.96198	.96544	.96828	.97022	.97298	.97492	.97672	.97846
0.17	.89598	.90806	.91558	.92178	.92698	.93278	.93800	.94238	.94786	.95248	.95648	.96018	.96386	.96712	.96978	.97158	.97422	.97596	.97760	.97926
0.18	.90372	.91480	.92120	.92670	.93148	.93650	.94088	.94484	.95004	.95430	.95796	.96136	.96494	.96802	.97060	.97230	.97466	.97638	.97802	.97968
0.19	.91382	.92360	.92938	.93402	.93782	.94208	.94578	.94884	.95332	.95710	.96050	.96346	.96668	.96944	.97186	.97322	.97554	.97726	.97878	.98028
0.20	.92172	.93018	.93544	.93946	.94292	.94668	.95006	.95286	.95674	.96014	.96276	.96552	.96856	.97124	.97324	.97460	.97672	.97822	.97966	.98110

Table 5.23 Power tables of $CM(Ref) - V$ against Normal ditribution

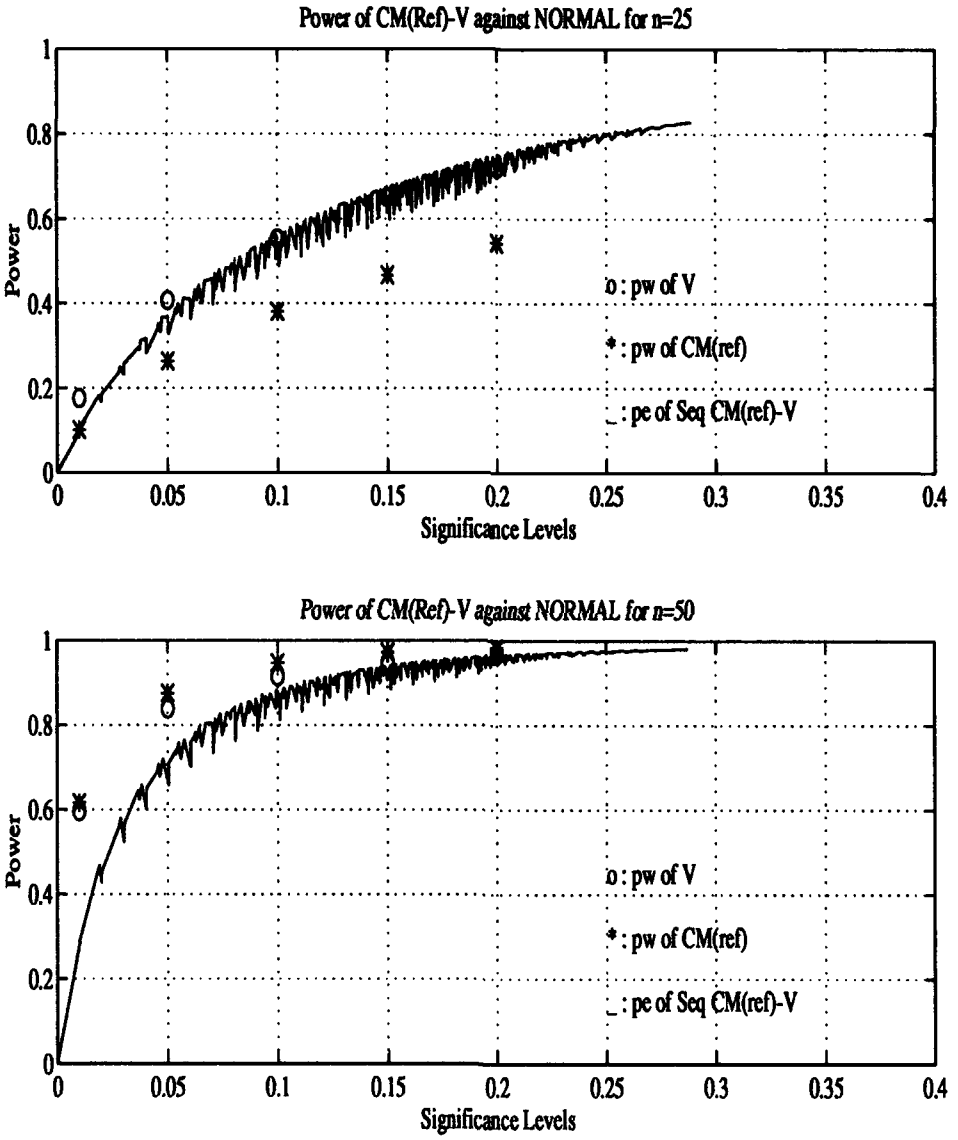

Figure 5.6 Power comparisons of $CM(Ref) - V$ against Normal

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 25$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.05908	.10140	.14466	.17972	.20932	.23476	.25762	.28068	.30088	.32112	.34194	.35864	.37520	.38952	.40484	.41986	.43356	.44802	.46126
0.02	.23744	.27944	.30960	.34002	.36584	.38708	.40586	.42298	.44072	.45562	.47082	.48656	.49940	.51196	.52268	.53448	.54588	.55694	.56814	.57852
0.03	.37922	.41134	.43424	.45736	.47750	.49400	.50910	.52292	.53720	.54932	.56188	.57442	.58490	.59532	.60412	.61340	.62276	.63186	.64058	.64878
0.04	.48350	.50844	.52636	.54462	.56064	.57442	.58640	.59756	.60918	.61922	.62960	.64016	.64872	.65772	.66500	.67286	.68052	.68780	.69526	.70212
0.05	.55216	.57340	.58814	.60342	.61688	.62832	.63870	.64820	.65824	.66698	.67596	.68486	.69256	.70058	.70680	.71334	.72008	.72654	.73272	.73846
0.06	.60470	.62276	.63516	.64830	.65958	.66932	.67806	.68598	.69488	.70258	.71054	.71854	.72530	.73256	.73794	.74370	.74974	.75538	.76094	.76594
0.07	.64870	.66436	.67520	.68638	.69632	.70478	.71246	.71948	.72704	.73376	.74088	.74792	.75402	.76034	.76504	.77002	.77538	.78048	.78536	.78986
0.08	.68748	.70126	.71034	.71994	.72868	.73612	.74300	.74932	.75616	.76212	.76848	.77472	.78016	.78546	.78978	.79412	.79898	.80360	.80792	.81196
0.09	.71852	.73054	.73866	.74716	.75490	.76122	.76734	.77288	.77900	.78440	.79020	.79566	.80064	.80548	.80926	.81324	.81774	.82200	.82596	.82966
0.10	.74556	.75662	.76366	.77130	.77826	.78372	.78930	.79430	.79956	.80452	.80966	.81462	.81912	.82330	.82682	.83046	.83446	.83826	.84184	.84530
0.11	.77136	.78142	.78774	.79456	.80044	.80526	.81012	.81450	.81912	.82360	.82830	.83276	.83692	.84076	.84390	.84732	.85072	.85402	.85716	.86014
0.12	.79566	.79902	.80472	.81102	.81634	.82068	.82496	.82894	.83312	.83732	.84156	.84566	.84950	.85290	.85568	.85880	.86188	.86480	.86750	.87026
0.13	.80592	.81428	.81962	.82528	.83014	.83406	.83786	.84154	.84534	.84930	.85298	.85672	.86028	.86336	.86596	.86882	.87170	.87444	.87698	.87954
0.14	.82128	.82894	.83372	.83892	.84340	.84686	.85042	.85390	.85724	.86090	.86414	.86750	.87080	.87374	.87612	.87888	.88150	.88400	.88630	.88864
0.15	.83520	.84240	.84676	.85148	.85554	.85868	.86178	.86496	.86804	.87134	.87438	.87742	.88044	.88312	.88530	.88778	.89014	.89236	.89436	.89658
0.16	.84928	.85574	.85984	.86402	.86770	.87048	.87326	.87612	.87890	.88178	.88450	.88718	.88980	.89210	.89402	.89632	.89834	.90020	.90204	.90396
0.17	.86122	.86724	.87106	.87488	.87824	.88066	.88312	.88556	.88816	.89080	.89324	.89556	.89800	.89996	.90170	.90378	.90564	.90740	.90906	.91076
0.18	.87036	.87598	.87946	.88290	.88612	.88838	.89066	.89306	.89538	.89782	.90018	.90238	.90460	.90646	.90806	.90998	.91168	.91334	.91476	.91628
0.19	.87964	.88488	.88810	.89124	.89408	.89618	.89824	.90044	.90258	.90480	.90698	.90892	.91096	.91256	.91404	.91580	.91734	.91888	.92016	.92158
0.20	.88846	.89328	.89620	.89898	.90152	.90350	.90540	.90734	.90924	.91132	.91338	.91528	.91716	.91874	.92016	.92184	.92322	.92466	.92592	.92716

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 50$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.11234	.19042	.24882	.29698	.34038	.37832	.40910	.43880	.46146	.48620	.50556	.52458	.54162	.55810	.57574	.59096	.60560	.61942	.63258
0.02	.58836	.63400	.66606	.69044	.70972	.72740	.74380	.75616	.76910	.77818	.78874	.79710	.80506	.81198	.81840	.82558	.83120	.83714	.84240	.84752
0.03	.76538	.79260	.81038	.82450	.83560	.84580	.85480	.86220	.87006	.87552	.88132	.88662	.89098	.89498	.89870	.90258	.90562	.90918	.91206	.91492
0.04	.85416	.87108	.88202	.89124	.89866	.90492	.91040	.91470	.91974	.92292	.92624	.92932	.93198	.93456	.93678	.93928	.94116	.94316	.94496	.94702
0.05	.89878	.91020	.91774	.92370	.92880	.93362	.93726	.94012	.94364	.94600	.94818	.95022	.95214	.95394	.95518	.95694	.95836	.95984	.96100	.96240
0.06	.92152	.92988	.93584	.94094	.94506	.94852	.95130	.95350	.95644	.95838	.96014	.96186	.96330	.96472	.96566	.96688	.96792	.96904	.97002	.97114
0.07	.93536	.94250	.94742	.95180	.95490	.95808	.96040	.96210	.96448	.96602	.96748	.96908	.97038	.97156	.97230	.97328	.97400	.97496	.97566	.97648
0.08	.94940	.95508	.95902	.96236	.96474	.96718	.96896	.97018	.97170	.97298	.97428	.97516	.97622	.97716	.97776	.97862	.97928	.98002	.98060	.98116
0.09	.95964	.96422	.96752	.97016	.97192	.97386	.97516	.97610	.97734	.97832	.97926	.98004	.98084	.98154	.98204	.98284	.98332	.98396	.98444	.98494
0.10	.96444	.96846	.97156	.97380	.97508	.97690	.97798	.97882	.97990	.98084	.98160	.98224	.98290	.98356	.98404	.98464	.98508	.98560	.98604	.98648
0.11	.98176	.98390	.98574	.98708	.98774	.98864	.98920	.98964	.99024	.99068	.99102	.99154	.99192	.99222	.99240	.99254	.99270	.99296	.99308	.99326
0.12	.98270	.98462	.98638	.98766	.98832	.98922	.98974	.99018	.99074	.99118	.99152	.99204	.99240	.99270	.99288	.99302	.99316	.99340	.99352	.99366
0.13	.98570	.98768	.98900	.98998	.99048	.99122	.99164	.99200	.99242	.99284	.99316	.99364	.99400	.99420	.99438	.99452	.99462	.99476	.99488	.99494
0.14	.99044	.99192	.99278	.99338	.99368	.99418	.99438	.99472	.99510	.99534	.99554	.99572	.99594	.99604	.99612	.99622	.99632	.99644	.99654	.99660
0.15	.99044	.99192	.99278	.99338	.99368	.99418	.99438	.99472	.99510	.99534	.99554	.99572	.99594	.99604	.99612	.99622	.99632	.99644	.99654	.99660
0.16	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99776	.99780
0.17	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99776	.99780
0.18	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99776	.99780
0.19	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99776	.99780
0.20	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99776	.99780

Table 5.24 Power tables of $CM(Ref) - V$ against Exponential ditribution

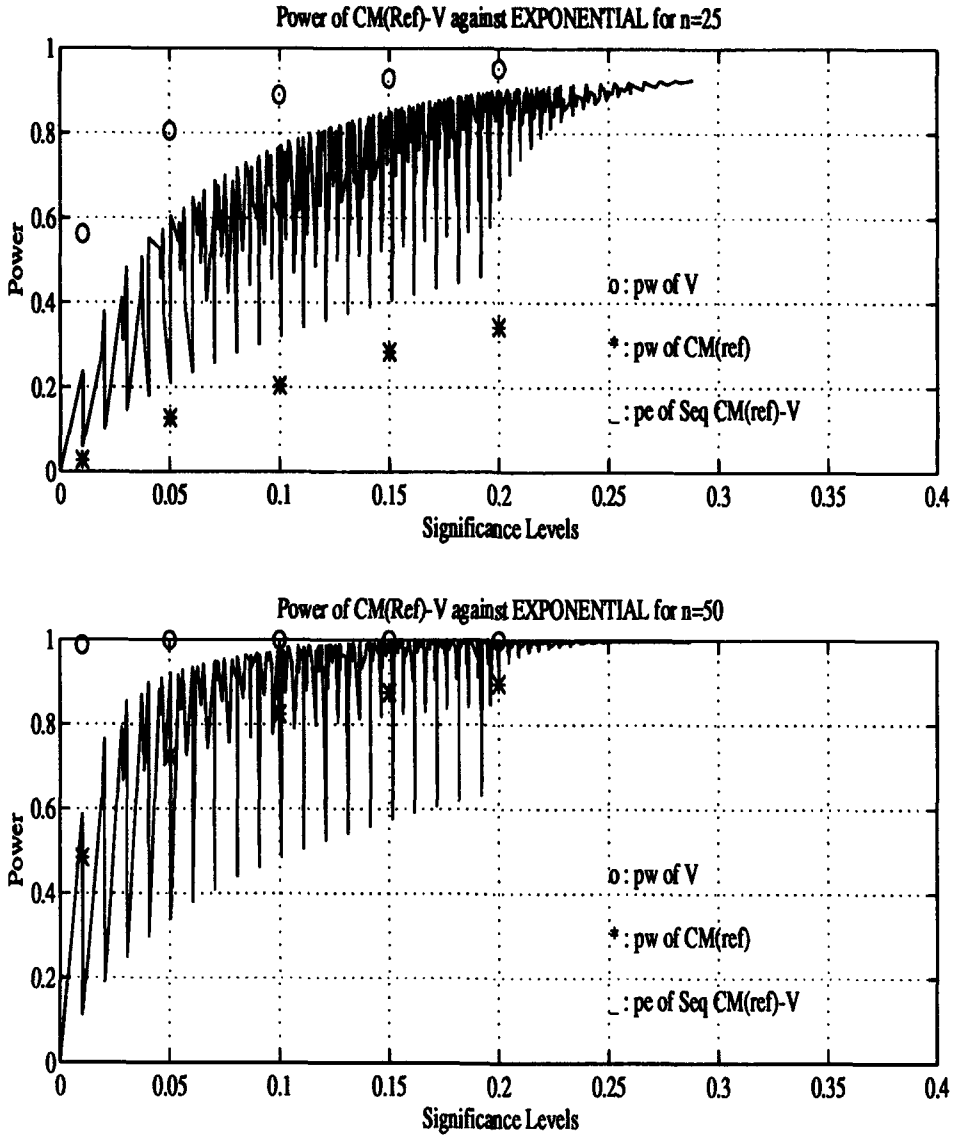

Figure 5.7 Power comparisons of $CM(Ref) - V$ against Exponential

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 25$

$CM(R)$ a V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.14632	.25188	.33764	.40736	.46434	.50600	.54228	.57560	.60456	.63182	.65742	.67930	.69972	.71846	.73522	.75018	.76674	.77970	.79178
0.02	.17436	.27946	.35900	.42870	.48700	.53398	.56894	.59994	.62840	.65316	.67658	.69886	.71784	.73548	.75190	.76636	.77942	.79390	.80514	.81568
0.03	.28540	.36566	.42978	.48852	.53850	.57862	.60950	.63700	.66196	.68386	.70500	.72494	.74246	.75820	.77284	.78590	.79786	.81130	.82168	.83156
0.04	.37474	.43760	.48882	.53728	.58058	.61504	.64272	.66728	.68982	.71004	.72894	.74704	.76306	.77778	.79094	.80304	.81394	.82604	.83574	.84486
0.05	.44160	.49240	.53460	.57526	.61258	.64274	.66754	.68960	.70986	.72906	.74650	.76302	.77768	.79106	.80344	.81470	.82484	.83622	.84542	.85390
0.06	.49382	.53636	.57140	.60566	.63846	.66510	.68756	.70748	.72568	.74342	.75970	.77514	.78892	.80148	.81304	.82390	.83356	.84448	.85300	.86110
0.07	.53602	.57206	.60226	.63184	.66088	.68498	.70554	.72386	.74050	.75696	.77176	.78584	.79890	.81070	.82146	.83146	.84064	.85084	.85902	.86678
0.08	.57602	.60680	.63252	.65762	.68330	.70478	.72294	.73936	.75452	.76954	.78322	.79648	.80854	.81954	.82958	.83906	.84772	.85758	.86536	.87278
0.09	.60964	.63626	.65874	.68026	.70266	.72144	.73758	.75228	.76644	.78032	.79294	.80554	.81688	.82724	.83664	.84578	.85412	.86364	.87110	.87816
0.10	.64070	.66362	.68282	.70148	.72108	.73806	.75250	.76552	.77816	.79098	.80284	.81432	.82482	.83454	.84350	.85204	.86002	.86920	.87632	.88306
0.11	.66920	.68932	.70558	.72178	.73894	.75382	.76682	.77848	.78992	.80148	.81244	.82300	.83246	.84154	.85008	.85810	.86556	.87420	.88100	.88742
0.12	.69218	.71024	.72434	.73876	.75382	.76704	.77888	.78946	.79994	.81036	.82034	.83034	.83934	.84778	.85580	.86348	.87054	.87862	.88494	.89108
0.13	.71414	.72982	.74250	.75546	.76904	.78042	.79086	.80058	.81014	.81950	.82878	.83786	.84628	.85410	.86160	.86882	.87554	.88312	.88914	.89492
0.14	.73320	.74748	.75882	.77032	.78218	.79250	.80180	.81048	.81932	.82810	.83676	.84520	.85322	.86050	.86756	.87432	.88090	.88768	.89356	.89910
0.15	.75044	.76368	.77384	.78384	.79446	.80380	.81214	.81994	.82792	.83606	.84398	.85174	.85894	.86570	.87250	.87884	.88516	.89166	.89736	.90276
0.16	.76758	.77964	.78890	.79792	.80746	.81592	.82344	.83040	.83744	.84464	.85196	.85902	.86546	.87162	.87758	.88382	.88956	.89552	.90090	.90604
0.17	.78274	.79356	.80160	.80962	.81838	.82624	.83294	.83954	.84612	.85314	.85984	.86632	.87236	.87812	.88380	.88916	.89474	.90024	.90530	.90996
0.18	.79510	.80514	.81236	.81946	.82722	.83426	.84034	.84638	.85224	.85882	.86508	.87112	.87698	.88246	.88776	.89286	.89820	.90350	.90840	.91284
0.19	.80754	.81662	.82308	.82932	.83622	.84234	.84780	.85352	.85904	.86516	.87086	.87634	.88192	.88702	.89194	.89666	.90170	.90678	.91130	.91532
0.20	.81908	.82748	.83340	.83900	.84520	.85092	.85578	.86102	.86618	.87208	.87718	.88220	.88714	.89176	.89638	.90092	.90560	.91034	.91460	.91836

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 50$

$CM(R)$ a V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.36580	.55208	.66904	.74278	.79136	.82750	.85746	.88244	.89740	.91368	.92732	.93508	.94022	.94730	.95454	.95904	.96364	.96744	.97232
0.02	.48224	.65022	.74348	.80154	.84428	.87226	.89454	.91204	.92668	.93568	.94614	.95540	.96018	.96386	.96828	.97326	.97616	.97978	.98142	.98412
0.03	.65666	.76156	.82094	.85698	.88330	.90294	.91956	.93372	.94518	.95166	.95870	.96458	.96882	.97162	.97416	.97856	.98094	.98410	.98542	.98774
0.04	.75276	.82728	.86826	.89052	.90780	.92088	.93390	.94538	.95516	.96108	.96734	.97184	.97560	.97790	.97996	.98292	.98484	.98742	.98844	.99020
0.05	.82408	.87648	.90388	.91890	.93130	.94054	.94964	.95816	.96470	.96880	.97410	.97770	.98032	.98240	.98384	.98618	.98798	.99014	.99116	.99230
0.06	.86332	.90082	.92106	.93278	.94256	.95004	.95752	.96392	.96954	.97338	.97764	.98062	.98294	.98478	.98608	.98786	.98946	.99114	.99200	.99278
0.07	.89338	.92370	.93914	.94770	.95450	.96024	.96566	.97070	.97450	.97730	.98102	.98304	.98486	.98656	.98770	.98876	.99028	.99196	.99264	.99330
0.08	.91154	.93662	.94920	.95590	.96152	.96538	.96966	.97352	.97674	.97928	.98286	.98478	.98622	.98740	.98842	.98930	.99082	.99250	.99318	.99382
0.09	.92844	.94980	.95912	.96480	.96948	.97234	.97604	.97832	.98036	.98232	.98552	.98744	.98820	.98910	.99012	.99076	.99214	.99362	.99450	.99514
0.10	.93938	.95724	.96482	.96992	.97368	.97590	.97928	.98120	.98286	.98424	.98710	.98902	.98972	.99046	.99138	.99184	.99304	.99434	.99502	.99566
0.11	.95312	.96644	.97204	.97580	.97912	.98078	.98320	.98494	.98652	.98744	.98972	.99152	.99198	.99272	.99322	.99368	.99454	.99534	.99598	.99652
0.12	.95776	.97010	.97518	.97834	.98080	.98210	.98448	.98590	.98724	.98792	.99008	.99186	.99230	.99300	.99350	.99396	.99482	.99554	.99616	.99656
0.13	.96106	.97274	.97744	.98026	.98256	.98378	.98584	.98706	.98828	.98884	.99046	.99224	.99268	.99334	.99384	.99420	.99504	.99564	.99628	.99666
0.14	.96522	.97546	.97978	.98252	.98448	.98552	.98710	.98826	.98918	.98972	.99122	.99300	.99330	.99398	.99418	.99454	.99538	.99584	.99646	.99686
0.15	.96910	.97812	.98176	.98426	.98618	.98706	.98822	.98936	.99020	.99058	.99208	.99358	.99384	.99450	.99456	.99492	.99566	.99606	.99664	.99704
0.16	.97270	.98078	.98410	.98610	.98746	.98814	.98926	.99038	.99122	.99152	.99264	.99414	.99440	.99494	.99500	.99536	.99602	.99636	.99694	.99734
0.17	.97488	.98280	.98584	.98774	.98910	.98960	.99064	.99170	.99228	.99258	.99338	.99488	.99514	.99568	.99574	.99610	.99632	.99666	.99704	.99744
0.18	.97902	.98590	.98854	.98998	.99094	.99142	.99240	.99340	.99392	.99408	.99488	.99588	.99614	.99642	.99648	.99670	.99686	.99702	.99720	.99760
0.19	.98208	.98770	.99006	.99134	.99200	.99236	.99292	.99380	.99420	.99436	.99502	.99628	.99656	.99662	.99682	.99684	.99700	.99706	.99724	.99762
0.20	.98348	.98906	.99110	.99228	.99288	.99310	.99366	.99454	.99494	.99510	.99534	.99634	.99660	.99684	.99690	.99712	.99728	.99734	.99748	.99786

Table 5.25 Power tables of $CM(Ref) - V$ against Beta ditribution

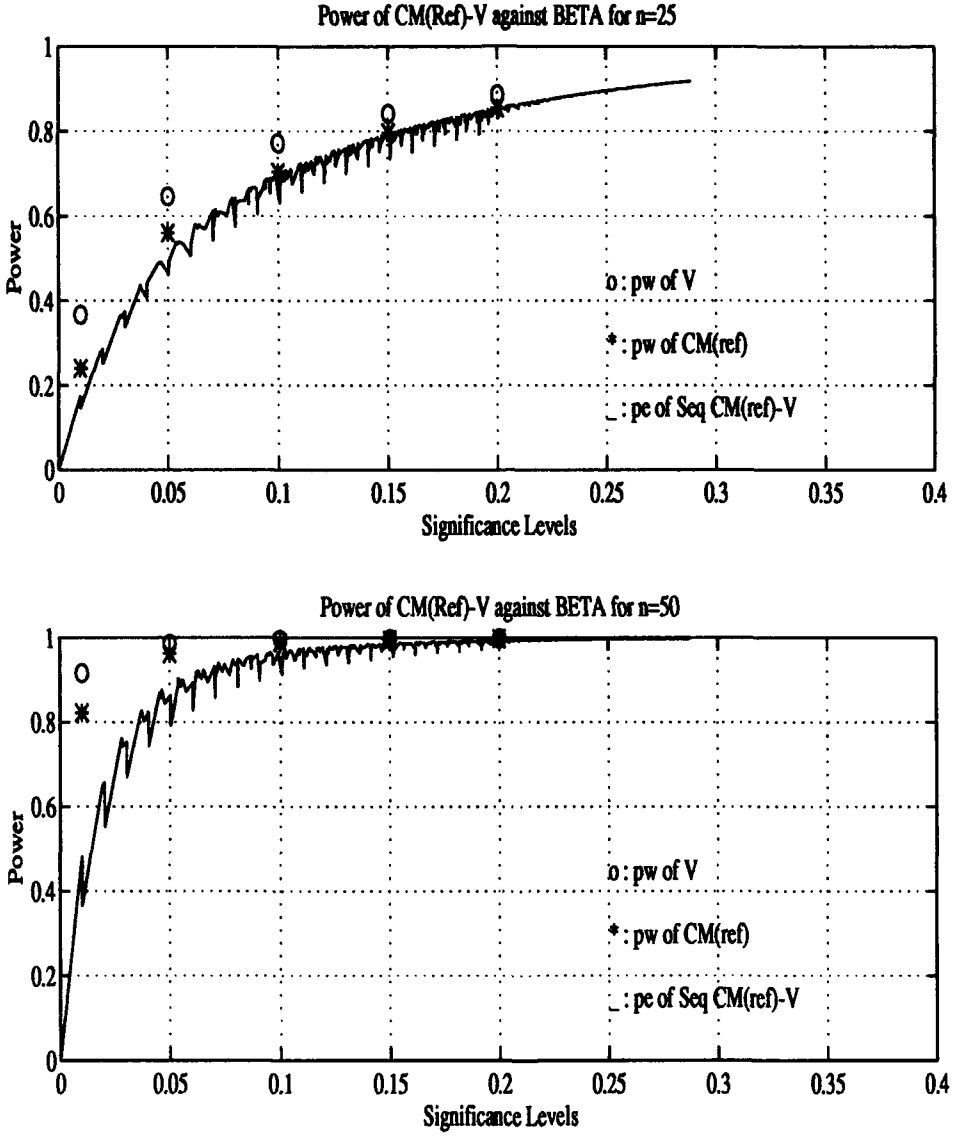

Figure 5.8 Power comparisons of $CM(Ref) - V$ against Beta

Powers of $CM(Ref) - V$ Sequential test against Gamma for $n = 25$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.07890	.13610	.19098	.23542	.27356	.30382	.33078	.35706	.38076	.40438	.42604	.44646	.46256	.47732	.49288	.50756	.52290	.53828	.55250
0.02	.15860	.21698	.26164	.30410	.34068	.37238	.39774	.41992	.44204	.46224	.48244	.50122	.51794	.53220	.54524	.55854	.57112	.58422	.59764	.61004
0.03	.26356	.31026	.34642	.38116	.41198	.43878	.46068	.48034	.49946	.51738	.53518	.55182	.56662	.57930	.59058	.60220	.61350	.62498	.63712	.64836
0.04	.35020	.38790	.41752	.44610	.47214	.49504	.51448	.53122	.54816	.56362	.57932	.59432	.60766	.61926	.62934	.64000	.65022	.66070	.67176	.68196
0.05	.41752	.44856	.47266	.49722	.51948	.53936	.55612	.57078	.58552	.59954	.61354	.62712	.63940	.64998	.65912	.66882	.67836	.68782	.69764	.70742
0.06	.46858	.49506	.51560	.53654	.55570	.57346	.58828	.60154	.61468	.62732	.64006	.65260	.66368	.67344	.68190	.69074	.69952	.70822	.71764	.72644
0.07	.50918	.53252	.55058	.56924	.58590	.60158	.61506	.62712	.63888	.65052	.66208	.67368	.68382	.69304	.70082	.70904	.71726	.72528	.73406	.74234
0.08	.54824	.56866	.58470	.60088	.61524	.62902	.64134	.65186	.66238	.67308	.68380	.69456	.70370	.71228	.71950	.72690	.73452	.74216	.75032	.75788
0.09	.58120	.59936	.61352	.62754	.64048	.65258	.66362	.67282	.68216	.69166	.70162	.71164	.72022	.72816	.73498	.74198	.74906	.75604	.76356	.77068
0.10	.61312	.62930	.64202	.65426	.66518	.67582	.68580	.69414	.70230	.71080	.71992	.72900	.73676	.74404	.75016	.75662	.76318	.76954	.77686	.78340
0.11	.64102	.65546	.66664	.67764	.68704	.69636	.70504	.71260	.72012	.72806	.73634	.74452	.75180	.75854	.76432	.77044	.77664	.78260	.78940	.79554
0.12	.66412	.67712	.68730	.69726	.70574	.71414	.72168	.72864	.73546	.74286	.75068	.75828	.76498	.77120	.77662	.78230	.78818	.79378	.80016	.80592
0.13	.68504	.69676	.70608	.71500	.72280	.73054	.73754	.74348	.74976	.75654	.76368	.77084	.77720	.78284	.78796	.79340	.79894	.80416	.81024	.81544
0.14	.70596	.71664	.72506	.73296	.73982	.74680	.75322	.75858	.76418	.77048	.77702	.78358	.78948	.79478	.79964	.80466	.80970	.81438	.81990	.82476
0.15	.72546	.73518	.74274	.74994	.75622	.76238	.76828	.77316	.77820	.78390	.78992	.79596	.80132	.80616	.81048	.81500	.81974	.82406	.82912	.83372
0.16	.74388	.75272	.75956	.76584	.77152	.77674	.78196	.78634	.79088	.79592	.80120	.80668	.81166	.81598	.81998	.82420	.82854	.83258	.83736	.84176
0.17	.76096	.76906	.77532	.78072	.78574	.79060	.79524	.79914	.80314	.80758	.81234	.81714	.82174	.82574	.82938	.83338	.83738	.84116	.84564	.84980
0.18	.77518	.78268	.78840	.79342	.79796	.80238	.80658	.81022	.81386	.81786	.82230	.82666	.83088	.83462	.83802	.84180	.84548	.84908	.85318	.85706
0.19	.78750	.79468	.79994	.80432	.80848	.81228	.81602	.81934	.82274	.82644	.83054	.83462	.83860	.84218	.84528	.84886	.85224	.85558	.85936	.86304
0.20	.79982	.80672	.81166	.81562	.81928	.82274	.82618	.82916	.83222	.83572	.83950	.84314	.84680	.85022	.85286	.85618	.85932	.86244	.86592	.86940

Powers of $CM(Ref) - V$ Sequential test against Gamma for $n = 50$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.17080	.28134	.35912	.42340	.47382	.51732	.55242	.58542	.61058	.63488	.65454	.67464	.69056	.70628	.71908	.73278	.74580	.75884	.77030
0.02	.43734	.53098	.59054	.63372	.67060	.69896	.72208	.74212	.76218	.77574	.78950	.80016	.81218	.82102	.83040	.83736	.84510	.85244	.85980	.86698
0.03	.61482	.67912	.71940	.74788	.77212	.79110	.80692	.82134	.83494	.84436	.85384	.86164	.86968	.87590	.88222	.88674	.89222	.89742	.90262	.90734
0.04	.71312	.76062	.79000	.81058	.82840	.84208	.85404	.86494	.87462	.88238	.88946	.89572	.90122	.90572	.91042	.91370	.91790	.92178	.92600	.92914
0.05	.78834	.82368	.84458	.85944	.87182	.88152	.89048	.89784	.90508	.91112	.91644	.92132	.92544	.92828	.93216	.93474	.93786	.94054	.94366	.94578
0.06	.83590	.86344	.87960	.89098	.90022	.90750	.91418	.91960	.92524	.93008	.93410	.93782	.94070	.94308	.94628	.94840	.95094	.95302	.95548	.95734
0.07	.86900	.89090	.90388	.91280	.92020	.92564	.93116	.93584	.94036	.94380	.94688	.94974	.95198	.95384	.95670	.95848	.96040	.96202	.96388	.96518
0.08	.89698	.91418	.92408	.93132	.93694	.94078	.94478	.94878	.95218	.95510	.95770	.96000	.96160	.96286	.96518	.96662	.96800	.96938	.97116	.97210
0.09	.91578	.92968	.93792	.94324	.94762	.95098	.95442	.95756	.96024	.96260	.96458	.96654	.96786	.96886	.97078	.97204	.97332	.97444	.97600	.97664
0.10	.93182	.94336	.94950	.95362	.95716	.95984	.96246	.96492	.96686	.96880	.97042	.97228	.97328	.97414	.97570	.97666	.97764	.97850	.97978	.98030
0.11	.94306	.95230	.95760	.96098	.96382	.96626	.96820	.97024	.97162	.97316	.97456	.97596	.97676	.97734	.97876	.97954	.98036	.98098	.98222	.98280
0.12	.94986	.95842	.96308	.96590	.96844	.97066	.97232	.97386	.97516	.97652	.97780	.97896	.97962	.98018	.98136	.98206	.98256	.98310	.98418	.98454
0.13	.95688	.96450	.96872	.97098	.97310	.97500	.97644	.97772	.97886	.98000	.98110	.98220	.98274	.98324	.98426	.98488	.98522	.98544	.98636	.98664
0.14	.96154	.96876	.97248	.97440	.97620	.97756	.97928	.98042	.98130	.98226	.98330	.98416	.98456	.98502	.98600	.98654	.98688	.98706	.98784	.98822
0.15	.96580	.97224	.97570	.97746	.97914	.98046	.98178	.98284	.98358	.98454	.98542	.98614	.98654	.98698	.98774	.98818	.98846	.98864	.98940	.98974
0.16	.96834	.97446	.97780	.97944	.98092	.98220	.98336	.98440	.98510	.98590	.98672	.98744	.98780	.98822	.98894	.98934	.98954	.98968	.99048	.99074
0.17	.97038	.97596	.97916	.98068	.98200	.98324	.98434	.98532	.98600	.98680	.98756	.98826	.98860	.98896	.98968	.99008	.99028	.99060	.99114	.99140
0.18	.97482	.97964	.98226	.98352	.98452	.98552	.98658	.98742	.98810	.98874	.98924	.98970	.99002	.99038	.99100	.99128	.99146	.99156	.99222	.99244
0.19	.98110	.98470	.98640	.98728	.98804	.98872	.98942	.99008	.99064	.99102	.99138	.99180	.99194	.99228	.99284	.99304	.99316	.99326	.99364	.99388
0.20	.98348	.98670	.98818	.98906	.98964	.99026	.99096	.99154	.99196	.99232	.99268	.99296	.99306	.99340	.99396	.99412	.99420	.99430	.99468	.99482

Table 5.26 Power tables of $CM(Ref) - V$ against Gamma ditribution

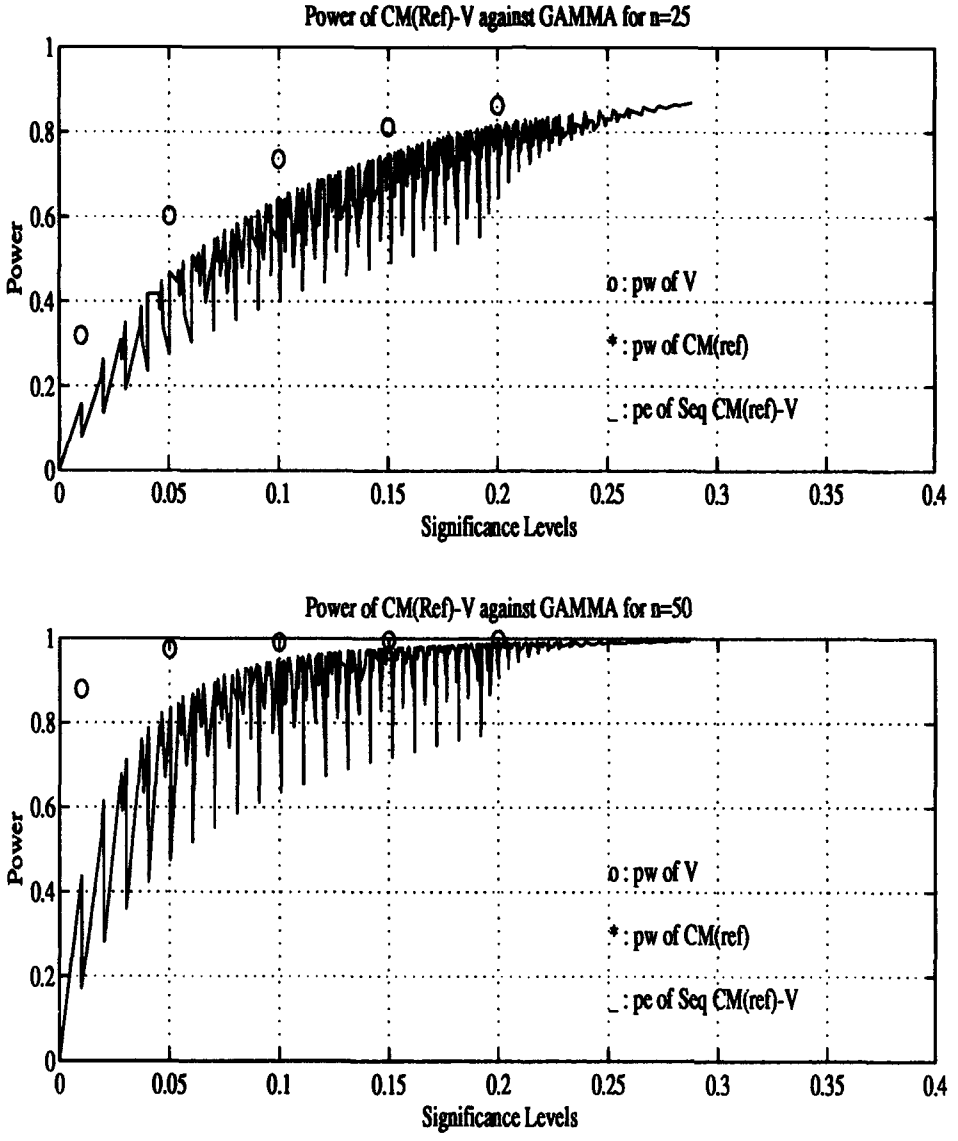

Figure 5.9 Power comparisons of $CM(Ref) - V$ against Gamma

Powers of $CM(Ref) - V$ Sequential test against Weibull for $n = 25$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.11618	.20642	.28168	.34630	.40160	.44498	.48328	.51758	.54786	.57764	.60542	.62938	.64934	.66776	.68738	.70406	.72096	.73616	.74964
0.02	.11180	.20468	.27994	.34492	.40226	.45172	.49066	.52524	.55558	.58318	.61036	.63542	.65744	.67554	.69272	.71090	.72632	.74148	.75544	.76800
0.03	.19212	.26794	.33192	.38888	.43962	.48448	.52038	.55204	.58008	.60588	.63106	.65450	.67496	.69188	.70782	.72486	.73916	.75342	.76554	.77642
0.04	.26220	.32432	.37836	.42834	.47334	.51400	.54676	.57560	.60152	.62560	.64890	.67082	.69018	.70622	.72128	.73744	.75078	.76440	.77688	.78778
0.05	.32074	.37254	.41808	.46180	.50216	.53872	.56866	.59536	.61962	.64192	.66382	.68432	.70266	.71778	.73226	.74746	.76010	.77326	.78472	.79518
0.06	.36524	.40912	.44846	.48706	.52374	.55714	.58500	.61[illegible]6	.63308	.65418	.67522	.69464	.71194	.72652	.74048	.75512	.76720	.77998	.79112	.80130
0.07	.40252	.44024	.47456	.50934	.54260	.57334	.59952	.62346	.64508	.66516	.68540	.70420	.72084	.73462	.74794	.76208	.77356	.78598	.79676	.80660
0.08	.43962	.47196	.50160	.53310	.56310	.59092	.61538	.63778	.65800	.67712	.69612	.71410	.72990	.74266	.75562	.76904	.78010	.79218	.80250	.81210
0.09	.47180	.49970	.52552	.55402	.58110	.60660	.62870	.64946	.66858	.68674	.70478	.72204	.73704	.74940	.76160	.77456	.78530	.79710	.80708	.81648
0.10	.50326	.52768	.55012	.57530	.59978	.62322	.64344	.66222	.68008	.69704	.71402	.73008	.74448	.75646	.76810	.78048	.79062	.80214	.81182	.82102
0.11	.53354	.55484	.57410	.59634	.61788	.63880	.65746	.67446	.69118	.70700	.72298	.73820	.75190	.76340	.77436	.78630	.79604	.80704	.81650	.82550
0.12	.55720	.57620	.59338	.61338	.63288	.65202	.66942	.68510	.70062	.71546	.73070	.74512	.75804	.76904	.77956	.79120	.80054	.81130	.82030	.82898
0.13	.58024	.59718	.61250	.63022	.64824	.66572	.68154	.69638	.71050	.72440	.73894	.75270	.76486	.77550	.78558	.79684	.80572	.81610	.82492	.83332
0.14	.60090	.61636	.62982	.64574	.66142	.67720	.69188	.70570	.71922	.73224	.74600	.75938	.77088	.78094	.79072	.80148	.81002	.82006	.82848	.83674
0.15	.62106	.63502	.64680	.66090	.67530	.68974	.70310	.71570	.72820	.74048	.75328	.76610	.77722	.78676	.79616	.80644	.81456	.82424	.83234	.84030
0.16	.64160	.65432	.66448	.67702	.69006	.70306	.71536	.72692	.73854	.74990	.76188	.77414	.78426	.79332	.80226	.81186	.81978	.82904	.83678	.84434
0.17	.65864	.67040	.67946	.69068	.70216	.71426	.72582	.73664	.74752	.75802	.76936	.78102	.79058	.79924	.80782	.81702	.82454	.83344	.84080	.84806
0.18	.67398	.68472	.69300	.70296	.71336	.72416	.73462	.74448	.75512	.76500	.77560	.78652	.79570	.80398	.81218	.82102	.82816	.83666	.84384	.85048
0.19	.69040	.70020	.70760	.71644	.72594	.73562	.74548	.75460	.76400	.77306	.78298	.79318	.80180	.80968	.81738	.82588	.83262	.84076	.84774	.85456
0.20	.70462	.71340	.72024	.72806	.73664	.74514	.75386	.76246	.77130	.77956	.78878	.79856	.80692	.81442	.82172	.82994	.83642	.84424	.85104	.85760

Powers of $CM(Ref) - V$ Sequential test against Weibull for $n = 50$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.31690	.50230	.61260	.69830	.75948	.80192	.83262	.85846	.87916	.90008	.91082	.92168	.93148	.93806	.94374	.94894	.95630	.96098	.96524
0.02	.32892	.51686	.63484	.70956	.77108	.81338	.84458	.86756	.88794	.90362	.91916	.92782	.93670	.94458	.94998	.95456	.95882	.96418	.96816	.97184
0.03	.49052	.62134	.70578	.76054	.80604	.83904	.86542	.88502	.90162	.91534	.92836	.93594	.94384	.95048	.95520	.95914	.96298	.96774	.97148	.97466
0.04	.58936	.68458	.74894	.79286	.82938	.85602	.87868	.89624	.91040	.92234	.93456	.94114	.94804	.95424	.95848	.96206	.96558	.97006	.97370	.97664
0.05	.65960	.73232	.78266	.81758	.84832	.87052	.88990	.90602	.91818	.92862	.93908	.94502	.95140	.95736	.96080	.96426	.96774	.97206	.97542	.97822
0.06	.71384	.77122	.81064	.83968	.86620	.88444	.90046	.91440	.92466	.93408	.94358	.94918	.95460	.96018	.96342	.96668	.97000	.97402	.97710	.97960
0.07	.75688	.80300	.83432	.85888	.88056	.89596	.90926	.92186	.93096	.93926	.94746	.95270	.95756	.96298	.96594	.96872	.97186	.97578	.97842	.98074
0.08	.79168	.82812	.85384	.87402	.89158	.90480	.91660	.92756	.93598	.94360	.95082	.95530	.95970	.96478	.96756	.97016	.97302	.97668	.97932	.98156
0.09	.81904	.84994	.87116	.88742	.90192	.91304	.92360	.93280	.94026	.94692	.95350	.95720	.96112	.96588	.96854	.97082	.97358	.97720	.97982	.98198
0.10	.84054	.86720	.88488	.89798	.91006	.91940	.92872	.93650	.94330	.94950	.95586	.95924	.96296	.96742	.96992	.97210	.97474	.97834	.98076	.98292
0.11	.86000	.88312	.89754	.90880	.91932	.92730	.93444	.94114	.94736	.95278	.95812	.96110	.96454	.96872	.97108	.97320	.97560	.97890	.98124	.98328
0.12	.87544	.89584	.90830	.91774	.92628	.93306	.93948	.94540	.95062	.95544	.96030	.96316	.96628	.96988	.97202	.97404	.97638	.97956	.98188	.98380
0.13	.88862	.90648	.91720	.92518	.93254	.93842	.94416	.94956	.95416	.95818	.96260	.96514	.96806	.97156	.97362	.97548	.97776	.98076	.98278	.98446
0.14	.89952	.91576	.92482	.93142	.93804	.94308	.94818	.95258	.95666	.96044	.96472	.96670	.96950	.97264	.97456	.97630	.97834	.98124	.98314	.98478
0.15	.91056	.92456	.93214	.93752	.94310	.94766	.95256	.95644	.96010	.96338	.96736	.96890	.97154	.97448	.97636	.97758	.97994	.98256	.98444	.98592
0.16	.92018	.93268	.93946	.94398	.94810	.95186	.95600	.95948	.96272	.96560	.96902	.97044	.97282	.97554	.97724	.97862	.98054	.98322	.98498	.98622
0.17	.92820	.93920	.94512	.94912	.95264	.95598	.95938	.96258	.96542	.96786	.97092	.97224	.97432	.97668	.97838	.97972	.98156	.98398	.98556	.98660
0.18	.93614	.94596	.95084	.95440	.95712	.95990	.96292	.96546	.96798	.97024	.97290	.97412	.97596	.97824	.97990	.98120	.98288	.98508	.98650	.98752
0.19	.94146	.95038	.95466	.95798	.96032	.96248	.96516	.96738	.96978	.97202	.97430	.97528	.97706	.97930	.98086	.98216	.98376	.98572	.98706	.98802
0.20	.94816	.95626	.96010	.96286	.96502	.96686	.96892	.97098	.97268	.97480	.97682	.97760	.97932	.98140	.98288	.98404	.98550	.98722	.98810	.98884

Table 5.27 Power tables of $CM(Ref) - V$ against Weibull ditribution

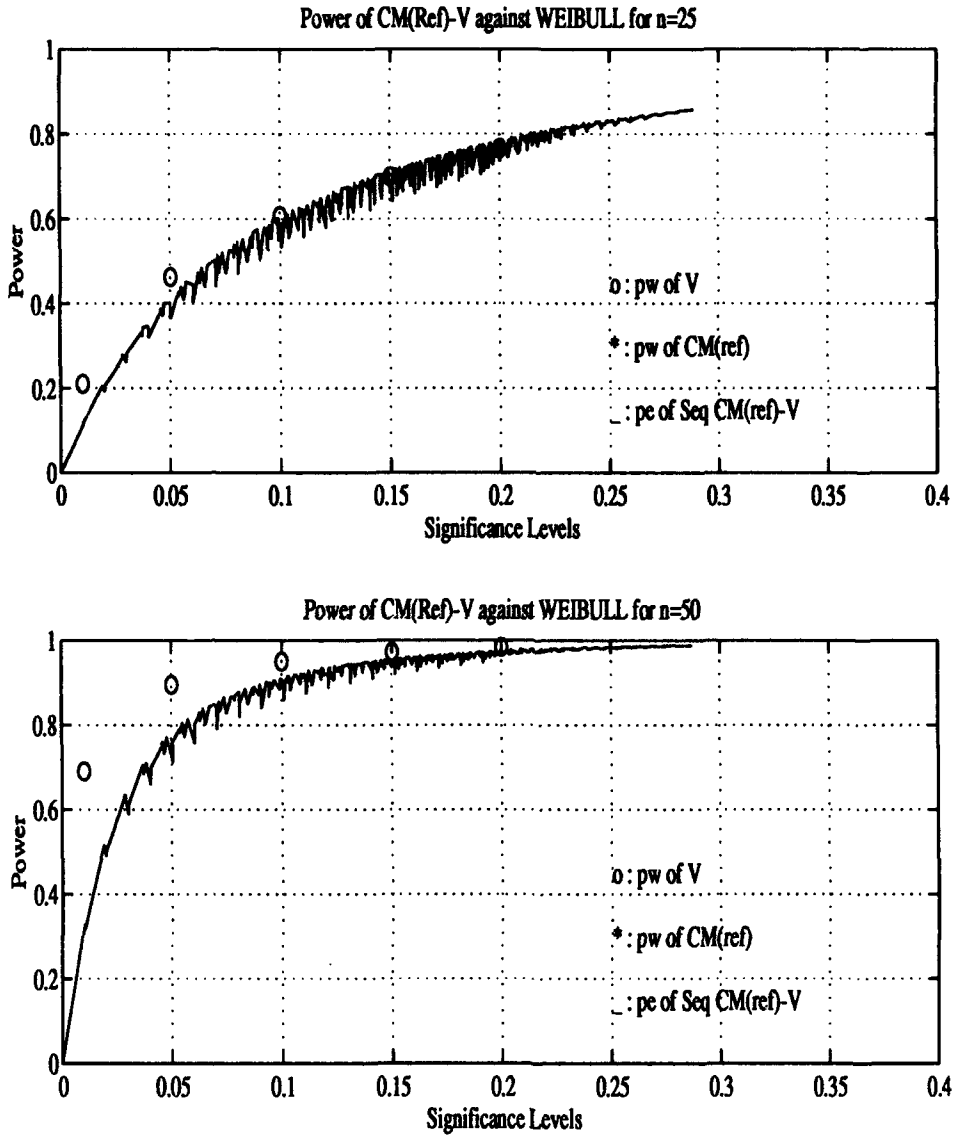

Figure 5.10 Power comparisons of $CM(Ref) - V$ against Weibull

Powers of $KS - V$ Sequential test against Cauchy for n = 25

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01008	.02020	.03030	.04038	.05054	.06056	.07062	.08076	.09098	.10102	.11116	.12124	.13132	.14138	.15140	.16146	.17150	.18162	.19176
0.02	.01006	.01944	.02900	.03872	.04840	.05800	.06774	.07744	.08720	.09708	.10686	.11682	.12680	.13652	.14640	.15612	.16600	.17600	.18584	.19570
0.03	.02008	.02866	.03778	.04702	.05628	.06548	.07468	.08406	.09352	.10316	.11278	.12244	.13224	.14162	.15122	.16062	.17034	.18020	.18992	.19958
0.04	.03018	.03784	.04634	.05510	.06396	.07274	.08166	.09072	.09990	.10920	.11864	.12810	.13758	.14678	.15610	.16536	.17490	.18464	.19412	.20366
0.05	.04032	.04732	.05538	.06388	.07234	.08070	.08924	.09800	.10694	.11602	.12522	.13430	.14344	.15252	.16166	.17080	.18008	.18956	.19896	.20826
0.06	.05042	.05674	.06412	.07216	.08014	.08822	.09652	.10512	.11388	.12276	.13172	.14058	.14952	.15824	.16716	.17604	.18518	.19446	.20358	.21274
0.07	.06050	.06644	.07326	.08082	.08846	.09636	.10430	.11256	.12106	.12964	.13842	.14704	.15570	.16418	.17290	.18152	.19052	.19966	.20862	.21754
0.08	.07066	.07610	.08244	.08946	.09670	.10422	.11200	.12010	.12836	.13662	.14528	.15364	.16214	.17046	.17896	.18738	.19620	.20530	.21390	.22262
0.09	.08070	.08578	.09158	.09816	.10506	.11226	.11978	.12752	.13556	.14362	.15212	.16026	.16854	.17660	.18478	.19296	.20160	.21050	.21910	.22756
0.10	.09076	.09518	.10048	.10676	.11336	.12012	.12736	.13486	.14272	.15054	.15872	.16664	.17466	.18240	.19040	.19850	.20694	.21562	.22398	.23238
0.11	.10084	.10486	.10980	.11572	.12200	.12838	.13532	.14264	.15032	.15792	.16598	.17378	.18160	.18922	.19704	.20494	.21316	.22166	.22982	.23804
0.12	.11096	.11460	.11930	.12492	.13076	.13692	.14348	.15058	.15800	.16540	.17322	.18074	.18834	.19582	.20346	.21116	.21920	.22748	.23554	.24370
0.13	.12098	.12414	.12856	.13362	.13922	.14514	.15142	.15828	.16560	.17264	.18014	.18740	.19480	.20212	.20956	.21710	.22484	.23292	.24084	.24884
0.14	.13108	.13392	.13806	.14284	.14800	.15352	.15942	.16618	.17326	.18014	.18754	.19472	.20186	.20898	.21630	.22370	.23114	.23906	.24688	.25472
0.15	.14108	.14356	.14726	.15176	.15674	.16202	.16762	.17416	.18112	.18784	.19504	.20212	.20906	.21606	.22310	.23034	.23768	.24538	.25304	.26074
0.16	.15120	.15324	.15658	.16074	.16550	.17056	.17584	.18204	.18878	.19532	.20232	.20920	.21594	.22276	.22954	.23672	.24390	.25144	.25892	.26646
0.17	.16132	.16288	.16604	.16994	.17438	.17908	.18410	.19012	.19660	.20284	.20974	.21642	.22294	.22946	.23604	.24300	.25002	.25734	.26462	.27202
0.18	.17138	.17278	.17564	.17920	.18352	.18798	.19276	.19852	.20476	.21072	.21758	.22382	.23014	.23650	.24296	.24972	.25654	.26378	.27092	.27816
0.19	.18148	.18268	.18530	.18856	.19272	.19698	.20162	.20726	.21316	.21878	.22534	.23160	.23766	.24384	.25016	.25678	.26334	.27038	.27736	.28438
0.20	.19152	.19262	.19496	.19794	.20186	.20598	.21044	.21594	.22166	.22710	.23344	.23952	.24546	.25144	.25760	.26404	.27044	.27726	.28416	.29102

Powers of $KS - V$ Sequential test against Cauchy for n = 50

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01010	.02024	.03038	.04052	.05056	.06074	.07092	.08102	.09110	.10120	.11126	.12138	.13150	.14164	.15180	.16190	.17204	.18222	.19230
0.02	.01012	.01958	.02914	.03886	.04848	.05818	.06798	.07778	.08762	.09744	.10726	.11690	.12678	.13662	.14654	.15644	.16630	.17630	.18634	.19628
0.03	.02014	.02862	.03770	.04674	.05594	.06530	.07488	.08442	.09384	.10346	.11304	.12242	.13198	.14158	.15126	.16096	.17062	.18032	.19012	.19978
0.04	.03020	.03798	.04648	.05508	.06382	.07270	.08196	.09128	.10044	.10978	.11904	.12820	.13752	.14684	.15632	.16564	.17512	.18466	.19416	.20368
0.05	.04028	.04760	.05552	.06368	.07196	.08044	.08932	.09840	.10716	.11622	.12524	.13420	.14328	.15238	.16156	.17068	.17998	.18922	.19854	.20794
0.06	.05042	.05710	.06450	.07220	.08012	.08824	.09682	.10558	.11408	.12274	.13150	.14024	.14912	.15792	.16684	.17568	.18468	.19374	.20284	.21206
0.07	.06052	.06666	.07366	.08084	.08840	.09624	.10448	.11294	.12118	.12956	.13810	.14666	.15526	.16382	.17254	.18118	.19008	.19896	.20790	.21688
0.08	.07062	.07624	.08288	.08968	.09676	.10422	.11198	.12014	.12802	.13614	.14446	.15288	.16120	.16960	.17810	.18648	.19502	.20346	.21244	.22132
0.09	.08082	.08586	.09208	.09844	.10518	.11228	.11986	.12768	.13520	.14306	.15114	.15938	.16742	.17564	.18392	.19220	.20050	.20890	.21748	.22612
0.10	.09092	.09548	.10124	.10732	.11370	.12054	.12784	.13534	.14254	.15010	.15794	.16600	.17386	.18180	.18994	.19806	.20622	.21440	.22272	.23118
0.11	.10108	.10502	.11056	.11634	.12248	.12894	.13598	.14318	.15010	.15746	.16514	.17300	.18068	.18850	.19642	.20436	.21230	.22028	.22840	.23670
0.12	.11114	.11464	.11994	.12538	.13126	.13742	.14414	.15100	.15774	.16494	.17230	.17990	.18734	.19488	.20266	.21040	.21814	.22606	.23394	.24202
0.13	.12122	.12412	.12900	.13428	.14002	.14598	.15248	.15906	.16556	.17258	.17970	.18702	.19424	.20162	.20932	.21682	.22434	.23198	.23968	.24762
0.14	.13126	.13392	.13836	.14326	.14890	.15460	.16090	.16724	.17344	.18028	.18724	.19432	.20144	.20860	.21606	.22346	.23086	.23802	.24544	.25320
0.15	.14134	.14364	.14778	.15230	.15758	.16298	.16914	.17532	.18128	.18790	.19460	.20142	.20834	.21524	.22242	.22970	.23674	.24384	.25122	.25878
0.16	.15144	.15348	.15722	.16146	.16632	.17138	.17712	.18312	.18894	.19552	.20178	.20844	.21520	.22194	.22894	.23594	.24282	.24978	.25698	.26436
0.17	.16158	.16340	.16680	.17066	.17548	.18036	.18584	.19156	.19716	.20342	.20972	.21606	.22262	.22910	.23588	.24272	.24932	.25606	.26312	.27030
0.18	.17160	.17320	.17628	.18002	.18436	.18914	.19452	.19978	.20512	.21128	.21726	.22342	.22984	.23610	.24264	.24934	.25564	.26238	.26928	.27630
0.19	.18164	.18306	.18588	.18936	.19334	.19790	.20290	.20812	.21332	.21932	.22514	.23112	.23734	.24354	.24988	.25642	.26264	.26932	.27596	.28282
0.20	.19172	.19294	.19560	.19890	.20268	.20704	.21178	.21676	.22182	.22754	.23324	.23898	.24502	.25094	.25716	.26360	.26976	.27602	.28246	.28934

Table 5.28 Power tables of $KS - V$ against Cauchy ditribution

Powers of $KS-V$ Sequential test against Normal for $n = 25$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01214	.02544	.03850	.05422	.06876	.08346	.09956	.11510	.13000	.14618	.16222	.17920	.19564	.21378	.22998	.24666	.26218	.27796	.29478
0.02	.09826	.10848	.11928	.12946	.14182	.15298	.16436	.17716	.18934	.20086	.21334	.22642	.23976	.25292	.26790	.28084	.29444	.30694	.31926	.33204
0.03	.16868	.17780	.18714	.19570	.20628	.21594	.22568	.23628	.24630	.25578	.26618	.27752	.28898	.30006	.31266	.32348	.33492	.34556	.35604	.36752
0.04	.23284	.24142	.24972	.25728	.26638	.27466	.28268	.29188	.30024	.30808	.31654	.32586	.33570	.34490	.35562	.36476	.37456	.38370	.39238	.40216
0.05	.28390	.29194	.29968	.30652	.31472	.32198	.32890	.33692	.34432	.35114	.35834	.36652	.37492	.38262	.39180	.39964	.40818	.41608	.42362	.43188
0.06	.32766	.33524	.34252	.34888	.35646	.36300	.36924	.37632	.38270	.38866	.39496	.40210	.40946	.41642	.42434	.43140	.43920	.44618	.45268	.45992
0.07	.36510	.37206	.37882	.38494	.39206	.39818	.40390	.41024	.41614	.42164	.42752	.43374	.44006	.44636	.45322	.45930	.46648	.47262	.47828	.48476
0.08	.40050	.40716	.41348	.41932	.42592	.43154	.43686	.44268	.44780	.45270	.45780	.46364	.46920	.47494	.48108	.48640	.49266	.49816	.50328	.50906
0.09	.43186	.43820	.44418	.44966	.45590	.46086	.46584	.47128	.47606	.48058	.48520	.49046	.49562	.50090	.50650	.51124	.51670	.52168	.52622	.53124
0.10	.46032	.46652	.47216	.47728	.48320	.48788	.49254	.49750	.50190	.50600	.51026	.51516	.51994	.52468	.52980	.53414	.53908	.54348	.54758	.55216
0.11	.48920	.49510	.50044	.50532	.51090	.51538	.51958	.52420	.52818	.53208	.53598	.54056	.54468	.54898	.55364	.55752	.56188	.56580	.56950	.57366
0.12	.51278	.51834	.52340	.52806	.53328	.53758	.54156	.54598	.54972	.55332	.55694	.56132	.56512	.56910	.57338	.57716	.58124	.58482	.58824	.59214
0.13	.53524	.54058	.54530	.54976	.55474	.55878	.56270	.56664	.57032	.57366	.57702	.58114	.58478	.58834	.59246	.59578	.59962	.60284	.60590	.60952
0.14	.55626	.56138	.56592	.57016	.57498	.57886	.58244	.58638	.58964	.59278	.59596	.59982	.60316	.60656	.61040	.61352	.61700	.61996	.62280	.62596
0.15	.57616	.58102	.58534	.58946	.59404	.59784	.60124	.60500	.60808	.61094	.61390	.61750	.62068	.62378	.62736	.63028	.63356	.63628	.63898	.64178
0.16	.59584	.60054	.60470	.60864	.61288	.61654	.61976	.62326	.62610	.62884	.63158	.63490	.63784	.64076	.64408	.64680	.64984	.65236	.65486	.65748
0.17	.61322	.61772	.62174	.62548	.62964	.63324	.63630	.63966	.64234	.64500	.64758	.65072	.65350	.65632	.65938	.66196	.66472	.66700	.66940	.67182
0.18	.62872	.63308	.63702	.64066	.64476	.64822	.65124	.65432	.65692	.65944	.66184	.66496	.66756	.67020	.67316	.67562	.67822	.68038	.68256	.68478
0.19	.64568	.64988	.65354	.65698	.66090	.66424	.66714	.66990	.67242	.67478	.67712	.68006	.68258	.68494	.68768	.68992	.69230	.69434	.69638	.69846
0.20	.66036	.66442	.66790	.67122	.67502	.67818	.68098	.68352	.68592	.68824	.69052	.69338	.69576	.69804	.70060	.70274	.70496	.70682	.70878	.71068

Powers of $KS-V$ Sequential test against Normal for $n = 50$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03294	.07012	.10584	.14172	.17816	.21560	.25308	.29110	.32442	.35428	.38494	.41816	.45080	.48112	.50860	.53232	.55734	.58106	.60434
0.02	.28366	.30782	.33380	.35900	.38426	.40910	.43536	.46038	.48582	.50818	.52814	.54912	.57112	.59236	.61212	.63006	.64482	.66136	.67654	.69140
0.03	.42594	.44524	.46608	.48634	.50646	.52590	.54682	.56650	.58614	.60332	.61868	.63530	.65220	.66798	.68316	.69608	.70686	.71950	.73066	.74156
0.04	.52568	.54186	.55868	.57556	.59194	.60790	.62518	.64126	.65726	.67096	.68388	.69688	.71076	.72364	.73568	.74612	.75478	.76464	.77352	.78172
0.05	.60506	.61848	.63246	.64618	.65994	.67316	.68722	.70046	.71362	.72482	.73554	.74638	.75744	.76796	.77782	.78650	.79364	.80174	.80828	.81486
0.06	.65808	.66944	.68166	.69364	.70568	.71722	.72908	.74046	.75198	.76180	.77098	.78026	.78994	.79862	.80676	.81412	.81998	.82674	.83214	.83772
0.07	.70112	.71102	.72166	.73216	.74270	.75296	.76352	.77324	.78302	.79162	.79966	.80776	.81624	.82374	.83070	.83724	.84258	.84842	.85298	.85774
0.08	.73378	.74254	.75226	.76190	.77158	.78064	.79002	.79872	.80732	.81482	.82202	.82932	.83676	.84336	.84950	.85524	.85978	.86470	.86860	.87284
0.09	.76486	.77240	.78100	.78952	.79808	.80634	.81458	.82216	.83002	.83652	.84284	.84926	.85570	.86146	.86680	.87174	.87566	.87994	.88338	.88702
0.10	.79034	.79688	.80460	.81236	.82010	.82748	.83486	.84166	.84848	.85432	.85994	.86556	.87124	.87636	.88096	.88532	.88896	.89260	.89554	.89888
0.11	.81234	.81814	.82508	.83202	.83898	.84554	.85212	.85812	.86426	.86962	.87464	.87950	.88474	.88930	.89340	.89748	.90042	.90414	.90674	.90970
0.12	.83268	.83764	.84382	.84986	.85590	.86174	.86748	.87266	.87826	.88316	.88774	.89220	.89688	.90106	.90478	.90852	.91150	.91454	.91672	.91936
0.13	.84832	.85266	.85830	.86362	.86904	.87440	.87986	.88456	.88968	.89396	.89818	.90218	.90626	.91012	.91328	.91674	.91944	.92212	.92412	.92650
0.14	.86356	.86758	.87276	.87754	.88232	.88704	.89212	.89634	.90084	.90458	.90848	.91196	.91570	.91914	.92188	.92510	.92756	.92996	.93174	.93388
0.15	.87690	.88056	.88520	.88946	.89380	.89802	.90268	.90652	.91056	.91404	.91756	.92060	.92408	.92726	.92984	.93260	.93470	.93686	.93848	.94026
0.16	.88776	.89108	.89534	.89924	.90324	.90710	.91126	.91484	.91868	.92190	.92512	.92788	.93100	.93384	.93614	.93858	.94042	.94232	.94384	.94542
0.17	.89790	.90086	.90472	.90832	.91204	.91564	.91946	.92280	.92622	.92922	.93212	.93456	.93740	.94002	.94206	.94436	.94600	.94770	.94916	.95056
0.18	.90642	.90922	.91264	.91594	.91944	.92262	.92628	.92932	.93250	.93516	.93778	.94002	.94260	.94508	.94692	.94908	.95050	.95210	.95348	.95474
0.19	.91428	.91688	.92004	.92314	.92640	.92950	.93264	.93536	.93818	.94068	.94314	.94504	.94734	.94962	.95132	.95334	.95464	.95614	.95742	.95858
0.20	.92120	.92362	.92644	.92934	.93244	.93526	.93814	.94076	.94348	.94578	.94796	.94974	.95188	.95402	.95558	.95752	.95866	.96008	.96126	.96226

Table 5.29 Power tables of $KS-V$ against Normal ditribution

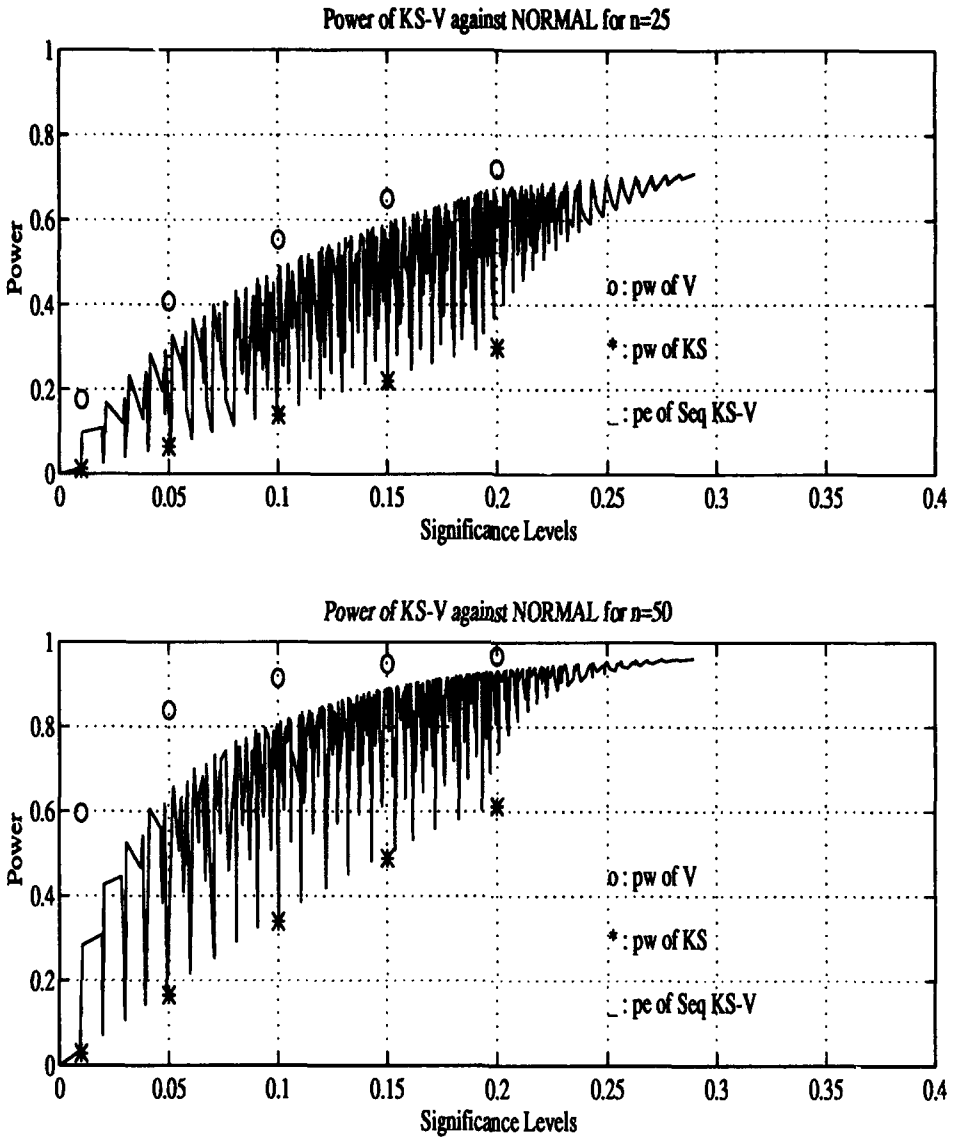

Figure 5.11 Power comparisons of $KS - V$ against Normal

Powers of $KS - V$ Sequential test against Exponential for $n = 25$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.27294	.43318	.52986	.60950	.66498	.71024	.74752	.77706	.80136	.82496	.84352	.85986	.87448	.88978	.90130	.91154	.91920	.92602	.93176
0.02	.23994	.42624	.54222	.61648	.67794	.72118	.75738	.78712	.81086	.83128	.85080	.86676	.88004	.89254	.90536	.91488	.92376	.92988	.93576	.94036
0.03	.37880	.51366	.60438	.66584	.71774	.75446	.78490	.81072	.83120	.84874	.86596	.87998	.89178	.90272	.91432	.92290	.93058	.93626	.94158	.94582
0.04	.47936	.57838	.64984	.70056	.74484	.77660	.80324	.82640	.84514	.86090	.87640	.88928	.90026	.91020	.92072	.92860	.93570	.94108	.94588	.94972
0.05	.55450	.62944	.68728	.72992	.76744	.79520	.81922	.83988	.85642	.87078	.88490	.89704	.90716	.91628	.92612	.93364	.93988	.94486	.94912	.95276
0.06	.61098	.66986	.71674	.75324	.78552	.81026	.83110	.84982	.86462	.87800	.89130	.90258	.91216	.92062	.92966	.93666	.94272	.94746	.95150	.95494
0.07	.65364	.70106	.73988	.77090	.79904	.82150	.84038	.85764	.87134	.88348	.89610	.90670	.91572	.92382	.93230	.93900	.94484	.94940	.95330	.95656
0.08	.69126	.73002	.76158	.78820	.81228	.83268	.84982	.86558	.87818	.88940	.90130	.91098	.91960	.92712	.93482	.94132	.94688	.95116	.95478	.95780
0.09	.72280	.75418	.78094	.80378	.82488	.84308	.85834	.87270	.88422	.89462	.90556	.91470	.92284	.92998	.93738	.94334	.94872	.95262	.95614	.95910
0.10	.74958	.77560	.79704	.81694	.83546	.85208	.86582	.87864	.88932	.89906	.90908	.91764	.92542	.93226	.93932	.94484	.95010	.95392	.95730	.96002
0.11	.77312	.79598	.81278	.82974	.84592	.86100	.87338	.88474	.89476	.90370	.91342	.92144	.92886	.93536	.94206	.94722	.95202	.95574	.95902	.96158
0.12	.79208	.81274	.82668	.84126	.85526	.86886	.88004	.89022	.89918	.90766	.91682	.92452	.93166	.93776	.94426	.94926	.95390	.95750	.96054	.96282
0.13	.80906	.82782	.83914	.85158	.86366	.87626	.88658	.89586	.90430	.91214	.92078	.92798	.93440	.94028	.94654	.95124	.95574	.95916	.96184	.96422
0.14	.82354	.84088	.85032	.86128	.87200	.88346	.89250	.90086	.90860	.91564	.92380	.93062	.93670	.94248	.94826	.95276	.95702	.96030	.96294	.96528
0.15	.83876	.85514	.86294	.87196	.88078	.89086	.89864	.90596	.91316	.91984	.92748	.93388	.93962	.94504	.95044	.95474	.95874	.96190	.96426	.96640
0.16	.85060	.86600	.87292	.88028	.88780	.89702	.90404	.91088	.91726	.92356	.93044	.93662	.94186	.94706	.95218	.95624	.95992	.96290	.96520	.96732
0.17	.86296	.87680	.88260	.88888	.89490	.90312	.90940	.91538	.92120	.92716	.93364	.93936	.94408	.94896	.95386	.95776	.96140	.96434	.96650	.96852
0.18	.87302	.88568	.89042	.89582	.90096	.90796	.91374	.91922	.92466	.93016	.93612	.94158	.94600	.95052	.95526	.95892	.96240	.96526	.96734	.96926
0.19	.88174	.89384	.89790	.90264	.90716	.91328	.91854	.92366	.92858	.93370	.93916	.94424	.94810	.95234	.95606	.96050	.96380	.96644	.96844	.97016
0.20	.89070	.90166	.90538	.90952	.91344	.91882	.92354	.92800	.93224	.93694	.94190	.94678	.95046	.95446	.95880	.96216	.96520	.96764	.96960	.97128

Powers of $KS - V$ Sequential test against Exponential for $n = 50$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.63436	.85748	.92862	.96898	.98598	.99042	.99100	.99306	.99306	.99306	.99494	.99494	.99494	.99794	.99794	.99794	1.0	1.0	1.0
0.02	.56950	.79832	.91234	.96472	.98102	.99302	.99744	.99766	.99780	.99780	.99780	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.03	.77716	.88376	.94442	.97222	.98688	.99626	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.04	.85286	.92410	.95208	.97620	.98688	.99626	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.05	.92056	.95248	.96800	.98566	.99312	.99626	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.06	.94744	.95434	.96932	.98680	.99348	.99626	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.07	.95964	.96448	.97298	.98978	.99598	.99876	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.08	.96352	.96836	.97590	.98990	.99610	.99888	.99888	.99888	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.09	.96510	.96986	.97590	.98990	.99610	.99888	.99888	.99888	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.10	.96874	.97350	.97728	.99128	.99610	.99888	.99888	.99888	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.11	.97308	.97784	.98110	.99394	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.12	.98246	.98282	.98420	.99404	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.13	.98282	.98282	.98420	.99404	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.14	.99168	.99168	.99292	.99732	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.15	.99168	.99168	.99292	.99732	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.16	.99168	.99168	.99292	.99732	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.17	.99438	.99438	.99438	.99878	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.18	.99450	.99450	.99450	.99878	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.19	.99878	.99878	.99878	.99878	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.20	.99878	.99878	.99878	.99878	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0

Table 5.30 Power tables of $KS - V$ against Exponential ditribution

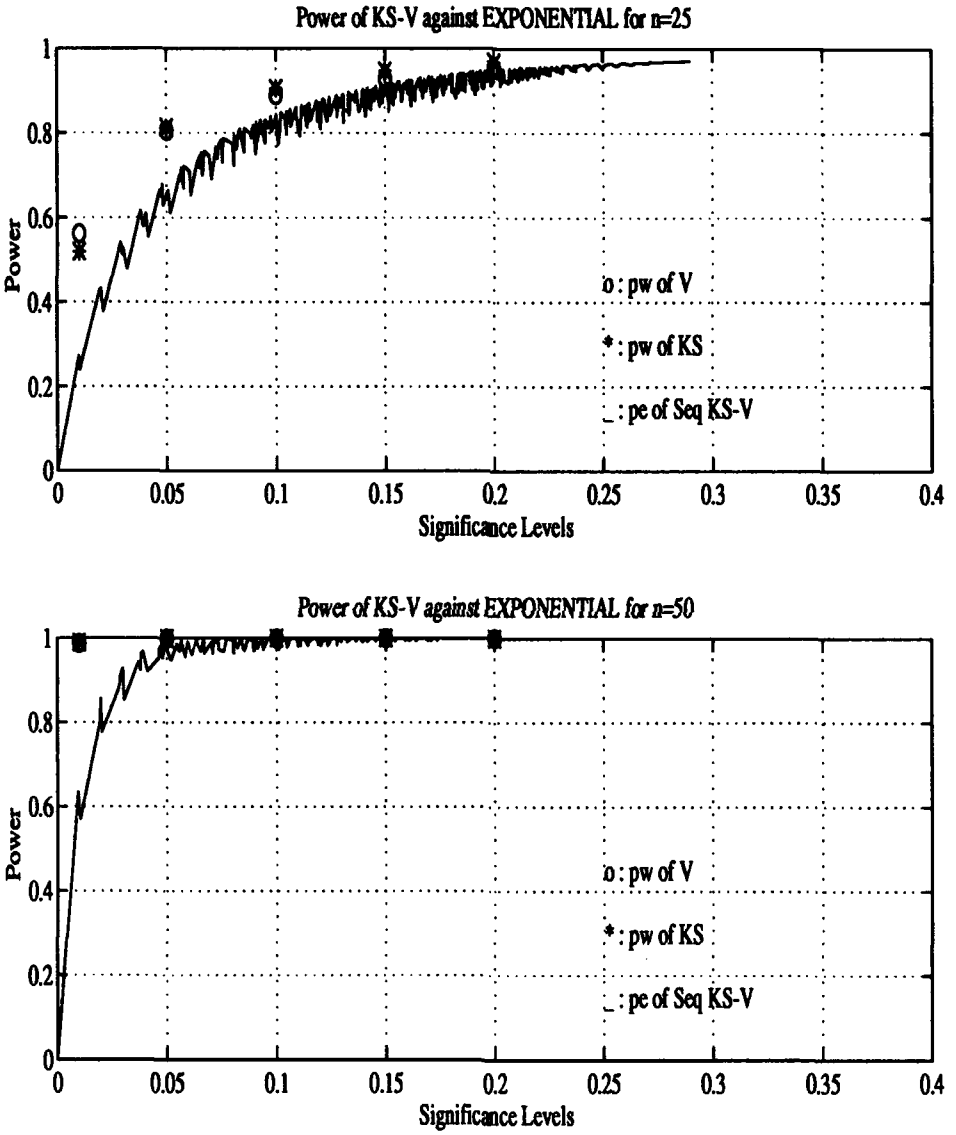

Figure 5.12 Power comparisons of $KS-V$ against Exponential

Powers of $KS-V$ Sequential test against Beta for $n = 25$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02894	.05776	.08566	.11698	.14474	.17202	.19970	.22654	.25246	.27700	.30094	.32374	.34826	.37368	.39536	.41840	.43948	.45988	.48008
0.02	.17054	.19364	.21594	.23664	.26006	.28016	.30046	.32114	.34120	.36022	.37846	.39604	.41376	.43224	.45162	.46812	.48602	.50202	.51804	.53446
0.03	.28014	.29986	.31868	.33590	.35494	.37144	.38764	.40444	.42068	.43604	.45118	.46536	.47928	.49442	.51006	.52366	.53840	.55160	.56468	.57826
0.04	.36624	.38350	.39964	.41452	.43062	.44470	.45858	.47260	.48596	.49848	.51072	.52266	.53420	.54676	.56014	.57132	.58342	.59406	.60500	.61612
0.05	.43314	.44852	.46258	.47550	.48980	.50208	.51396	.52572	.53712	.54796	.55880	.56868	.57868	.58952	.60106	.61064	.62096	.63004	.63918	.64876
0.06	.48846	.50208	.51474	.52656	.53918	.55014	.56074	.57112	.58102	.58990	.59926	.60766	.61612	.62568	.63564	.64390	.65258	.66042	.66814	.67648
0.07	.53144	.54382	.55522	.56584	.57726	.58722	.59686	.60616	.61500	.62294	.63118	.63860	.64600	.65460	.66314	.67026	.67810	.68486	.69164	.69910
0.08	.57156	.58306	.59354	.60338	.61374	.62258	.63142	.63974	.64738	.65442	.66166	.66826	.67492	.68240	.68970	.69580	.70264	.70860	.71448	.72096
0.09	.60412	.61476	.62440	.63334	.64274	.65078	.65898	.66654	.67342	.67980	.68642	.69230	.69842	.70514	.71172	.71712	.72328	.72848	.73382	.73986
0.10	.63550	.64538	.65428	.66214	.67094	.67840	.68604	.69288	.69902	.70500	.71098	.71624	.72174	.72772	.73360	.73844	.74374	.74830	.75324	.75828
0.11	.66128	.67054	.67898	.68632	.69442	.70136	.70848	.71472	.72046	.72598	.73156	.73636	.74144	.74704	.75228	.75678	.76142	.76556	.77004	.77470
0.12	.68338	.69208	.70010	.70698	.71462	.72108	.72778	.73344	.73876	.74384	.74906	.75352	.75834	.76340	.76814	.77236	.77654	.78034	.78444	.78854
0.13	.70524	.71334	.72068	.72724	.73440	.74026	.74642	.75158	.75656	.76130	.76598	.77014	.77460	.77924	.78358	.78754	.79138	.79476	.79840	.80212
0.14	.72448	.73206	.73894	.74512	.75194	.75744	.76332	.76796	.77268	.77702	.78144	.78522	.78930	.79354	.79758	.80108	.80474	.80764	.81092	.81426
0.15	.74360	.75054	.75698	.76282	.76910	.77424	.77960	.78408	.78844	.79246	.79666	.79992	.80350	.80744	.81120	.81442	.81770	.82028	.82324	.82620
0.16	.76196	.76816	.77418	.77958	.78546	.79006	.79502	.79908	.80314	.80686	.81066	.81362	.81680	.82040	.82372	.82676	.82972	.83204	.83462	.83760
0.17	.77824	.78394	.78964	.79482	.80030	.80456	.80918	.81292	.81672	.82018	.82374	.82652	.82954	.83290	.83588	.83856	.84132	.84354	.84610	.84862
0.18	.79236	.79784	.80330	.80816	.81330	.81734	.82166	.82524	.82882	.83200	.83546	.83792	.84074	.84382	.84664	.84910	.85174	.85368	.85600	.85840
0.19	.80404	.80926	.81456	.81928	.82420	.82814	.83222	.83564	.83908	.84216	.84544	.84772	.85028	.85312	.85580	.85816	.86084	.86244	.86458	.86674
0.20	.81542	.82024	.82532	.82982	.83446	.83818	.84204	.84536	.84864	.85152	.85460	.85680	.85930	.86196	.86454	.86684	.86914	.87072	.87268	.87464

Powers of $KS-V$ Sequential test against Beta for $n = 50$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.14256	.26216	.35894	.44000	.51284	.57818	.63344	.67894	.71722	.74994	.77898	.80496	.82856	.84974	.86770	.88180	.89544	.90684	.91918
0.02	.48078	.55444	.61644	.66630	.70766	.74346	.77692	.80550	.82962	.84910	.86520	.87986	.89246	.90356	.91442	.92368	.93158	.93890	.94462	.95118
0.03	.65638	.70470	.74588	.77892	.80636	.83014	.85254	.87116	.88708	.89976	.91008	.91970	.92766	.93510	.94178	.94758	.95280	.95712	.96056	.96478
0.04	.75332	.78888	.81784	.84164	.86134	.87988	.89562	.90842	.91966	.92832	.93550	.94190	.94768	.95276	.95756	.96146	.96518	.96812	.97066	.97382
0.05	.82378	.84930	.86964	.88670	.90054	.91380	.92568	.93488	.94292	.94884	.95384	.95824	.96230	.96560	.96896	.97170	.97426	.97634	.97800	.98060
0.06	.86472	.88420	.90020	.91332	.92424	.93456	.94348	.95010	.95640	.96098	.96486	.96822	.97084	.97346	.97602	.97800	.98004	.98174	.98298	.98496
0.07	.89078	.90672	.91996	.93060	.93952	.94778	.95482	.96002	.96518	.96878	.97190	.97456	.97644	.97852	.98068	.98238	.98412	.98556	.98646	.98804
0.08	.91396	.92602	.93692	.94546	.95216	.95888	.96436	.96838	.97214	.97514	.97750	.97962	.98120	.98270	.98436	.98590	.98726	.98830	.98898	.99026
0.09	.92570	.93604	.94544	.95270	.95848	.96452	.96950	.97296	.97622	.97880	.98076	.98272	.98404	.98532	.98672	.98806	.98906	.98984	.99044	.99160
0.10	.93810	.94678	.95432	.96058	.96536	.97056	.97474	.97770	.98044	.98254	.98412	.98568	.98680	.98794	.98908	.99008	.99098	.99168	.99220	.99304
0.11	.94776	.95506	.96134	.96668	.97084	.97520	.97844	.98096	.98320	.98490	.98618	.98752	.98850	.98950	.99052	.99142	.99212	.99272	.99320	.99382
0.12	.95868	.96488	.96988	.97414	.97732	.98064	.98332	.98518	.98684	.98822	.98914	.99030	.99112	.99184	.99260	.99318	.99366	.99422	.99452	.99508
0.13	.96636	.97154	.97560	.97930	.98190	.98452	.98662	.98788	.98928	.99050	.99128	.99230	.99294	.99360	.99418	.99454	.99490	.99528	.99552	.99604
0.14	.97164	.97612	.97964	.98274	.98514	.98740	.98920	.99018	.99134	.99230	.99306	.99386	.99434	.99474	.99522	.99550	.99586	.99606	.99626	.99670
0.15	.97634	.98006	.98318	.98578	.98780	.98978	.99120	.99204	.99294	.99378	.99444	.99502	.99534	.99560	.99594	.99616	.99644	.99666	.99684	.99720
0.16	.97738	.98104	.98398	.98648	.98842	.99034	.99160	.99240	.99324	.99406	.99470	.99528	.99560	.99582	.99610	.99638	.99666	.99688	.99706	.99742
0.17	.97982	.98298	.98560	.98784	.98956	.99132	.99252	.99330	.99404	.99482	.99534	.99586	.99612	.99634	.99668	.99690	.99716	.99730	.99744	.99778
0.18	.98384	.98618	.98846	.99014	.99150	.99280	.99378	.99440	.99498	.99564	.99608	.99652	.99674	.99694	.99720	.99742	.99758	.99774	.99788	.99810
0.19	.98716	.98902	.99086	.99206	.99316	.99406	.99482	.99528	.99580	.99642	.99676	.99716	.99728	.99744	.99758	.99784	.99802	.99812	.99824	.99844
0.20	.98852	.99012	.99174	.99284	.99390	.99472	.99542	.99584	.99626	.99676	.99710	.99748	.99758	.99772	.99796	.99812	.99824	.99834	.99846	.99862

Table 5.31 Power tables of $KS-V$ against Beta ditribution

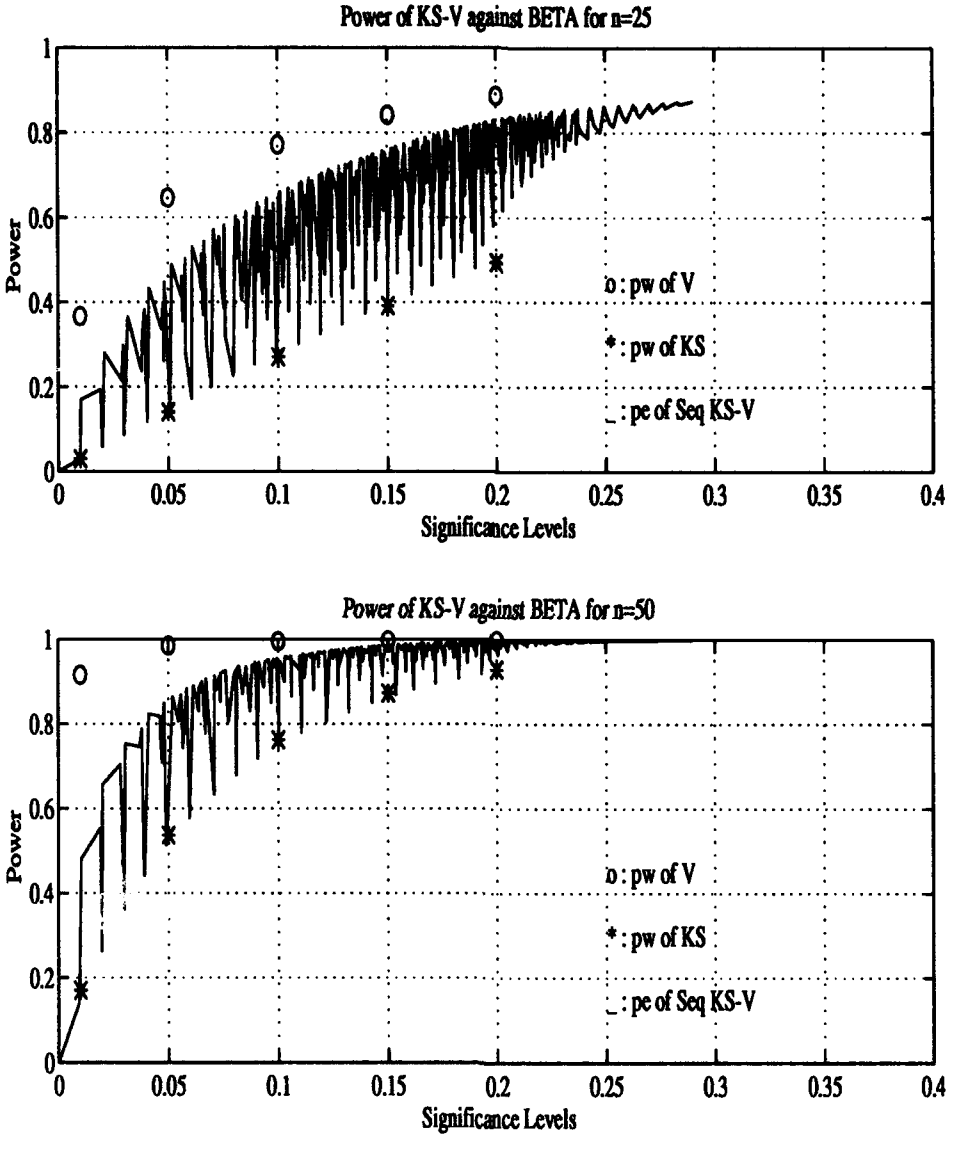

Figure 5.13 Power comparisons of $KS - V$ against Beta

Powers of $KS-V$ Sequential test against Gamma for $n = 25$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10282	.18968	.25674	.31914	.37432	.41998	.46086	.49926	.53254	.56292	.59164	.61812	.64360	.66874	.68988	.70932	.72656	.74250	.75884
0.02	.15486	.22814	.29290	.34508	.39514	.44134	.47958	.51404	.54712	.57850	.60226	.62692	.65042	.67310	.69544	.71408	.73134	.74646	.76068	.77506
0.03	.25964	.31622	.36632	.40814	.44954	.48838	.52112	.55100	.58060	.60546	.62906	.65136	.67288	.69342	.71406	.73096	.74678	.76074	.77398	.78684
0.04	.34650	.39230	.43148	.46478	.49850	.53132	.55940	.58510	.61128	.63330	.65416	.67446	.69392	.71246	.73148	.74636	.76076	.77376	.78632	.79800
0.05	.41112	.45006	.48188	.50954	.53830	.56580	.59014	.61266	.63568	.65548	.67414	.69266	.71098	.72792	.74542	.75910	.77234	.78470	.79636	.80756
0.06	.46562	.49940	.52646	.54962	.57306	.59674	.61820	.63764	.65812	.67596	.69286	.70992	.72634	.74200	.75834	.77078	.78328	.79468	.80578	.81598
0.07	.50760	.53794	.56138	.58066	.60128	.62164	.64064	.65794	.67658	.69306	.70862	.72424	.73934	.75412	.76932	.78090	.79274	.80324	.81394	.82360
0.08	.54700	.57458	.59494	.61120	.62842	.64574	.66214	.67756	.69470	.70954	.72382	.73758	.75196	.76558	.77960	.79062	.80158	.81160	.82150	.83056
0.09	.58082	.60578	.62406	.63810	.65270	.66818	.68264	.69618	.71142	.72488	.73764	.75080	.76358	.77646	.78918	.79974	.80986	.81928	.82856	.83712
0.10	.61268	.63554	.65162	.66350	.67620	.68906	.70192	.71386	.72744	.73968	.75114	.76298	.77454	.78636	.79814	.80800	.81758	.82626	.83500	.84322
0.11	.63974	.66128	.67594	.68630	.69692	.70822	.71944	.73004	.74236	.75324	.76360	.77442	.78514	.79610	.80718	.81642	.82494	.83338	.84176	.84944
0.12	.66440	.68436	.69790	.70706	.71646	.72572	.73512	.74416	.75534	.76514	.77464	.78452	.79456	.80468	.81480	.82344	.83142	.83934	.84712	.85448
0.13	.68708	.70544	.71760	.72592	.73444	.74258	.75054	.75854	.76840	.77718	.78566	.79478	.80406	.81332	.82288	.83098	.83830	.84558	.85294	.85982
0.14	.70694	.72396	.73544	.74294	.75044	.75744	.76442	.77162	.78042	.78830	.79590	.80428	.81306	.82166	.83052	.83796	.84486	.85152	.85854	.86494
0.15	.72486	.74068	.75128	.75796	.76470	.77094	.77694	.78338	.79116	.79844	.80530	.81312	.82106	.82888	.83702	.84362	.85024	.85648	.86316	.86924
0.16	.74236	.75728	.76722	.77344	.77950	.78496	.79004	.79556	.80248	.80920	.81530	.82226	.82950	.83650	.84384	.85030	.85620	.86204	.86830	.87416
0.17	.75738	.77132	.78074	.78654	.79204	.79698	.80148	.80598	.81210	.81810	.82356	.82998	.83668	.84326	.85010	.85610	.86156	.86688	.87290	.87842
0.18	.76972	.78316	.79188	.79722	.80230	.80674	.81068	.81468	.82030	.82590	.83088	.83668	.84268	.84892	.85544	.86114	.86630	.87140	.87706	.88234
0.19	.78276	.79528	.80370	.80862	.81324	.81722	.82068	.82426	.82904	.83408	.83860	.84408	.84954	.85546	.86140	.86670	.87180	.87624	.88148	.88660
0.20	.79528	.80716	.81516	.81980	.82400	.82756	.83058	.83384	.83796	.84272	.84680	.85166	.85672	.86222	.86774	.87274	.87716	.88154	.88634	.89136

Powers of $KS-V$ Sequential test against Gamma for $n = 50$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.40960	.61158	.72454	.79558	.84932	.88520	.90978	.92820	.94252	.95230	.96006	.96746	.97508	.97968	.98366	.98654	.98910	.99038	.99282
0.02	.44324	.64216	.75090	.81766	.86106	.89576	.91704	.93356	.94630	.95640	.96340	.96924	.97398	.97984	.98334	.98658	.98886	.99064	.99168	.99362
0.03	.61314	.74430	.81610	.86126	.89062	.91662	.93216	.94480	.95478	.96282	.96854	.97364	.97752	.98276	.98582	.98816	.99002	.99180	.99278	.99444
0.04	.71472	.80868	.85826	.88978	.91110	.93066	.94256	.95288	.96140	.96792	.97284	.97614	.97974	.98428	.98716	.98902	.99066	.99224	.99322	.99448
0.05	.78478	.85438	.88960	.91160	.92724	.94218	.95126	.95910	.96592	.97190	.97578	.97860	.98114	.98526	.98790	.98960	.99122	.99254	.99352	.99466
0.06	.83014	.88324	.91074	.92606	.93886	.95012	.95750	.96382	.96958	.97466	.97834	.98082	.98306	.98658	.98912	.99032	.99184	.99306	.99404	.99516
0.07	.86594	.90800	.92718	.93820	.94830	.95752	.96304	.96798	.97230	.97638	.97984	.98214	.98424	.98740	.98988	.99096	.99244	.99356	.99448	.99548
0.08	.88826	.92076	.93702	.94660	.95476	.96234	.96690	.97100	.97454	.97822	.98120	.98324	.98528	.98808	.99034	.99142	.99282	.99374	.99460	.99558
0.09	.90908	.93494	.94820	.95562	.96142	.96708	.97068	.97414	.97726	.97990	.98274	.98448	.98646	.98910	.99094	.99202	.99340	.99422	.99508	.99598
0.10	.92032	.94300	.95482	.96156	.96634	.97116	.97386	.97690	.97926	.98152	.98400	.98530	.98722	.98974	.99156	.99260	.99378	.99460	.99526	.99600
0.11	.93404	.95142	.96120	.96712	.97082	.97426	.97672	.97928	.98130	.98332	.98558	.98678	.98834	.99082	.99248	.99342	.99452	.99510	.99568	.99626
0.12	.94392	.95898	.96802	.97314	.97614	.97856	.98024	.98218	.98358	.98554	.98732	.98830	.98944	.99188	.99322	.99416	.99520	.99570	.99628	.99684
0.13	.94998	.96364	.97166	.97628	.97908	.98108	.98268	.98408	.98548	.98692	.98840	.98920	.99020	.99264	.99388	.99450	.99546	.99596	.99650	.99700
0.14	.95934	.97062	.97690	.98028	.98276	.98444	.98568	.98664	.98774	.98876	.98980	.99060	.99148	.99306	.99426	.99466	.99582	.99602	.99656	.99706
0.15	.96542	.97504	.98062	.98340	.98522	.98674	.98786	.98846	.98932	.99014	.99080	.99118	.99208	.99350	.99468	.99498	.99584	.99622	.99670	.99728
0.16	.97036	.97872	.98294	.98524	.98648	.98754	.98830	.98908	.98990	.99058	.99100	.99158	.99244	.99388	.99506	.99528	.99614	.99652	.99704	.99756
0.17	.97346	.98112	.98520	.98696	.98794	.98890	.98962	.98994	.99054	.99110	.99150	.99208	.99276	.99406	.99524	.99546	.99614	.99652	.99706	.99756
0.18	.97676	.98342	.98716	.98868	.98958	.99050	.99116	.99142	.99202	.99250	.99282	.99320	.99376	.99488	.99562	.99584	.99642	.99674	.99728	.99776
0.19	.98108	.98628	.98948	.99052	.99126	.99196	.99240	.99256	.99294	.99342	.99370	.99398	.99454	.99566	.99632	.99638	.99692	.99724	.99762	.99794
0.20	.98330	.98784	.99074	.99168	.99216	.99266	.99304	.99314	.99350	.99390	.99418	.99434	.99484	.99584	.99636	.99652	.99706	.99736	.99774	.99804

Table 5.32 Power tables of $KS-V$ against Gamma ditribution

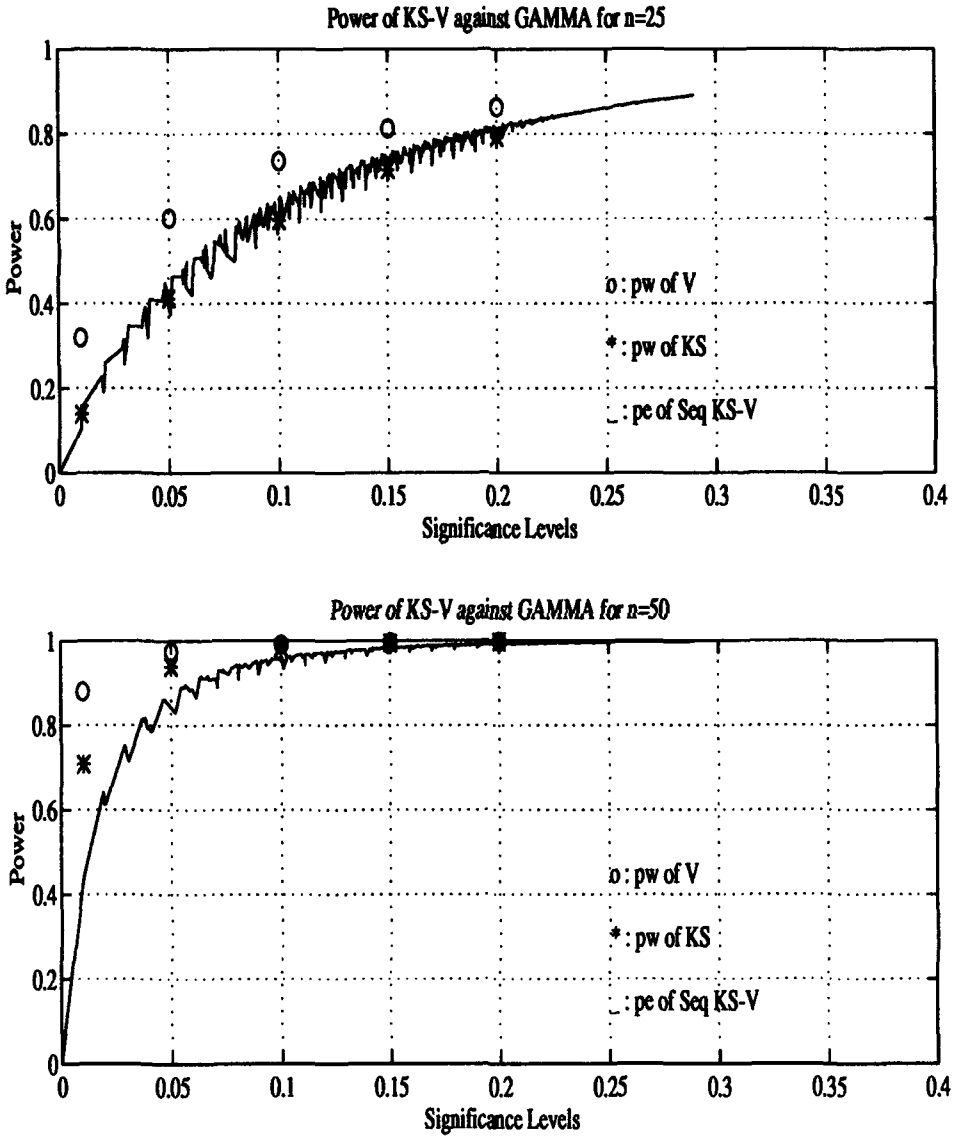

Figure 5.14 Power comparisons of $KS-V$ against Gamma

Powers of $KS - V$ Sequential test against Weibull for $n = 25$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01364	.02826	.04300	.05960	.07592	.09158	.10790	.12466	.14186	.15940	.17766	.19412	.21256	.23164	.24902	.26654	.28316	.29954	.31618
0.02	.11282	.12454	.13638	.14788	.16086	.17362	.18546	.19782	.21034	.22364	.23712	.25170	.26474	.27954	.29460	.30842	.32228	.33610	.34822	.36158
0.03	.19272	.20306	.21338	.22340	.23452	.24514	.25476	.26488	.27516	.28594	.29726	.30962	.32010	.33218	.34498	.35668	.36820	.37884	.38966	.40108
0.04	.26364	.27290	.28222	.29112	.30070	.30966	.31790	.32638	.33540	.34452	.35378	.36404	.37268	.38266	.39336	.40304	.41292	.42160	.43068	.44006
0.05	.32054	.32906	.33768	.34572	.35424	.36210	.36928	.37664	.38456	.39244	.40020	.40908	.41620	.42484	.43394	.44210	.45054	.45794	.46590	.47386
0.06	.36584	.37364	.38168	.38920	.39708	.40416	.41072	.41738	.42446	.43148	.43852	.44616	.45236	.46000	.46810	.47614	.48270	.48906	.49600	.50288
0.07	.40536	.41252	.42014	.42716	.43444	.44088	.44684	.45314	.45954	.46600	.47228	.47924	.48484	.49156	.49872	.50496	.51144	.51708	.52312	.52916
0.08	.44096	.44788	.45508	.46168	.46854	.47432	.47974	.48558	.49140	.49728	.50298	.50940	.51430	.52044	.52688	.53228	.53800	.54308	.54850	.55396
0.09	.47408	.48054	.48724	.49348	.49996	.50536	.51030	.51556	.52092	.52638	.53172	.53760	.54198	.54756	.55326	.55804	.56320	.56768	.57280	.57734
0.10	.50496	.51100	.51730	.52326	.52930	.53446	.53902	.54364	.54866	.55370	.55852	.56392	.56800	.57316	.57852	.58248	.58724	.59122	.59568	.59994
0.11	.53196	.53768	.54374	.54926	.55500	.55996	.56426	.56854	.57324	.57798	.58250	.58748	.59128	.59588	.60062	.60446	.60870	.61234	.61646	.62040
0.12	.55548	.56092	.56674	.57198	.57740	.58214	.58606	.59016	.59444	.59884	.60304	.60764	.61122	.61550	.61998	.62346	.62734	.63070	.63454	.63818
0.13	.57940	.58454	.59006	.59504	.60020	.60474	.60852	.61242	.61640	.62052	.62428	.62852	.63190	.63576	.63998	.64320	.64682	.64982	.65336	.65654
0.14	.60082	.60580	.61110	.61592	.62076	.62508	.62868	.63246	.63614	.63996	.64356	.64744	.65062	.65414	.65818	.66106	.66446	.66728	.67044	.67334
0.15	.62206	.62682	.63182	.63640	.64100	.64500	.64834	.65182	.65534	.65894	.66232	.66606	.66904	.67238	.67600	.67868	.68190	.68448	.68744	.69002
0.16	.64098	.64558	.65032	.65478	.65904	.66290	.66602	.66932	.67272	.67614	.67934	.68278	.68558	.68870	.69214	.69466	.69772	.70010	.70270	.70514
0.17	.65868	.66298	.66742	.67156	.67568	.67940	.68240	.68554	.68876	.69200	.69502	.69834	.70094	.70390	.70718	.70952	.71228	.71434	.71682	.71918
0.18	.67474	.67882	.68312	.68704	.69092	.69444	.69722	.70024	.70338	.70644	.70932	.71240	.71492	.71774	.72074	.72294	.72556	.72750	.72980	.73200
0.19	.69086	.69464	.69864	.70242	.70612	.70944	.71214	.71498	.71794	.72094	.72374	.72672	.72910	.73166	.73450	.73662	.73914	.74094	.74298	.74504
0.20	.70558	.70914	.71288	.71640	.71994	.72320	.72582	.72850	.73136	.73420	.73688	.73974	.74200	.74444	.74708	.74898	.75132	.75298	.75494	.75688

Powers of $KS - V$ Sequential test against Weibull for $n = 50$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04018	.08452	.12894	.16966	.21348	.25928	.30202	.34222	.37758	.41114	.44710	.48074	.51324	.54354	.57318	.59782	.62294	.64744	.67200
0.02	.32678	.35400	.38380	.41368	.44074	.47004	.50030	.52816	.55306	.57680	.59870	.62158	.64300	.66332	.68192	.69980	.71460	.72972	.74450	.75898
0.03	.48190	.50356	.52642	.54894	.56960	.59180	.61488	.63588	.65526	.67298	.68966	.70670	.72258	.73784	.75142	.76460	.77584	.78632	.79710	.80726
0.04	.58526	.60238	.62118	.63920	.65616	.67414	.69276	.70878	.72410	.73806	.75092	.76434	.77706	.78894	.79982	.81020	.81886	.82884	.83810	.84790
0.05	.66074	.67476	.69000	.70506	.71886	.73322	.74814	.76114	.77374	.78526	.79574	.80674	.81714	.82698	.83564	.84380	.85074	.85736	.86380	.87024
0.06	.71464	.72650	.73948	.75220	.76410	.77616	.78892	.80000	.81082	.82030	.82900	.83808	.84676	.85504	.86218	.86912	.87496	.88052	.88572	.89076
0.07	.75916	.76924	.78032	.79092	.80072	.81100	.82174	.83084	.83992	.84830	.85588	.86326	.87066	.87754	.88346	.88912	.89414	.89888	.90310	.90728
0.08	.79332	.80176	.81134	.82060	.82898	.83768	.84710	.85504	.86286	.86962	.87630	.88270	.88894	.89496	.89992	.90496	.90912	.91326	.91680	.92040
0.09	.82058	.82780	.83604	.84390	.85100	.85852	.86662	.87340	.88018	.88606	.89184	.89740	.90284	.90802	.91234	.91684	.92056	.92428	.92724	.93042
0.10	.84206	.84838	.85566	.86278	.86896	.87570	.88288	.88876	.89490	.90020	.90544	.91024	.91516	.91958	.92350	.92738	.93068	.93378	.93616	.93894
0.11	.86082	.86654	.87308	.87944	.88488	.89086	.89728	.90242	.90788	.91252	.91726	.92144	.92580	.92968	.93306	.93638	.93938	.94212	.94420	.94682
0.12	.87742	.88256	.88842	.89392	.89892	.90412	.90970	.91428	.91914	.92316	.92728	.93086	.93464	.93798	.94112	.94416	.94676	.94902	.95082	.95306
0.13	.89122	.89578	.90102	.90590	.91024	.91500	.91986	.92390	.92810	.93178	.93546	.93882	.94218	.94522	.94800	.95070	.95298	.95492	.95654	.95836
0.14	.90434	.90838	.91282	.91720	.92090	.92504	.92938	.93292	.93674	.93998	.94334	.94636	.94944	.95202	.95440	.95666	.95872	.96046	.96196	.96360
0.15	.91506	.91838	.92238	.92606	.92940	.93304	.93696	.94026	.94358	.94644	.94952	.95218	.95492	.95726	.95940	.96124	.96300	.96460	.96592	.96726
0.16	.92364	.92666	.93030	.93360	.93658	.93972	.94326	.94616	.94914	.95182	.95454	.95692	.95934	.96144	.96342	.96508	.96660	.96800	.96918	.97028
0.17	.93268	.93520	.93842	.94124	.94404	.94686	.94998	.95252	.95518	.95748	.95980	.96186	.96400	.96590	.96760	.96906	.97038	.97160	.97264	.97358
0.18	.94080	.94296	.94584	.94814	.95060	.95302	.95586	.95808	.96040	.96238	.96440	.96614	.96808	.96972	.97116	.97252	.97364	.97474	.97562	.97642
0.19	.94878	.95056	.95304	.95490	.95700	.95912	.96172	.96362	.96560	.96740	.96902	.97048	.97220	.97362	.97490	.97606	.97696	.97790	.97884	.97930
0.20	.95330	.95482	.95706	.95874	.96060	.96256	.96510	.96676	.96848	.97004	.97156	.97294	.97450	.97580	.97694	.97806	.97890	.97978	.98052	.98110

Table 5.33 Power tables of $KS - V$ against Weibull ditribution

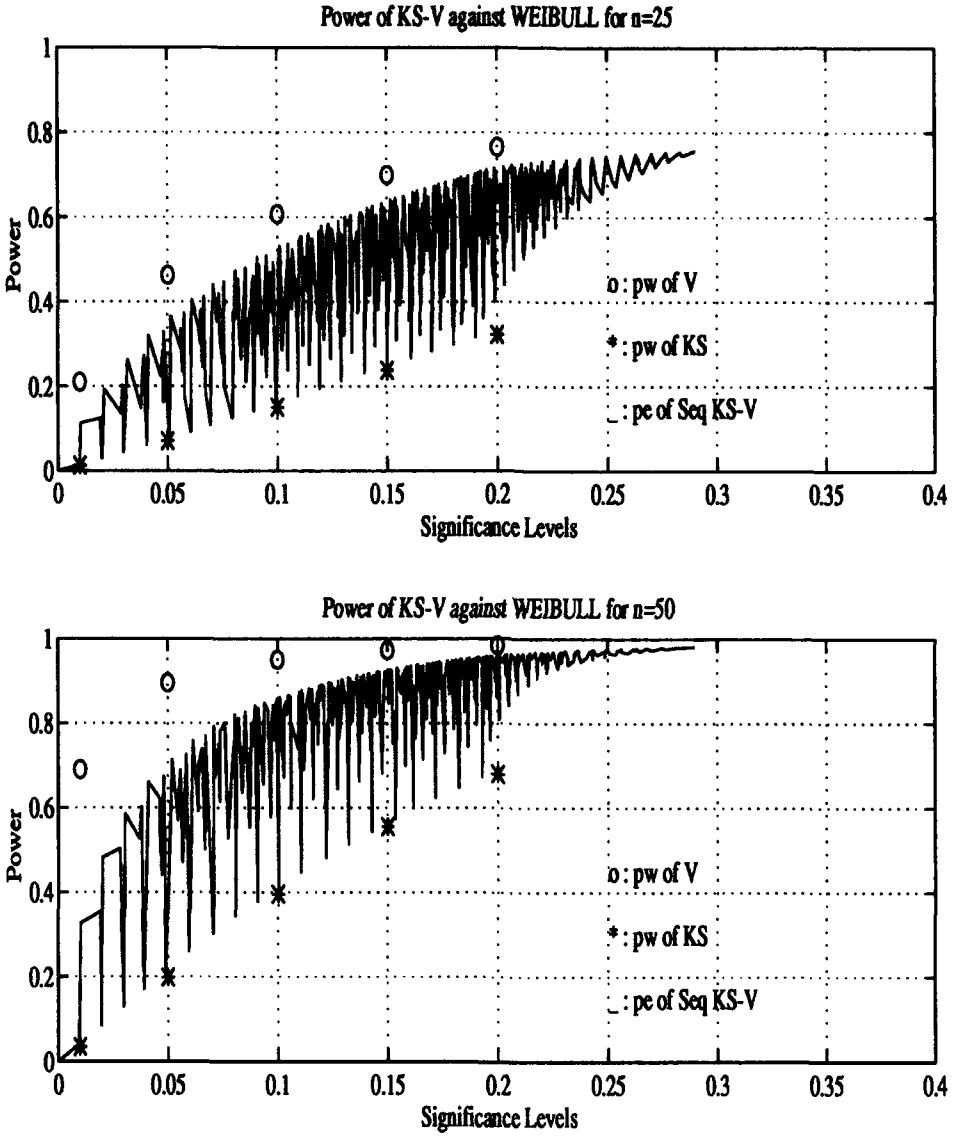

Figure 5.15 Power comparisons of $KS - V$ against Weibull

VI. Conclusion and Recommendations

6.1 Conclusions

The results and analysis of this thesis were presented in the previous chapter for each case studied. The conclusions derived based on the results can be summarized as follows :

1. The first three digits of the critical values for each test are significant with 95% confidence. Therefore the tests are applicable to any samples with the size of $5, (5)50$.
2. KS test has higher power compared to the CM and A^2 tests as Ocasio concluded.
3. V has the highest power against all distributions and therefore overwhelms the other tests.
4. As the sample size increases the power at smaller α levels increase.
5. Reflection technique improves the power against symmetric or nearly symmetric distributions for all the tests. The improvement starts for the samples with $n \geq 10$.
6. Reflection technique reduces the power significantly against the non-symmetric distributions.
7. Significance levels of the sequential tests are less than the sum of the significance levels of the individual tests. That is, for the sequential test of c which is the combination of test a and test b, the significance level is

$$\alpha_c \leq \alpha_a + \alpha_b$$

8. The power of the sequential tests against symmetric distributions at a certain α level is some value between the powers of the two individual tests at that α level.

9. The power of the sequential tests against non-symmetric distributions at a certain α level is less than the powers of the two individual tests at that α level.

10. Among these three sequential tests KS and V sequential test gives higher and the smoothest power against non-symmetric distributions.

This study offers a close look at the sequential tests. The behavior of the sequential tests follows interesting patterns. The results of this study can help those who want to learn more about the sequential goodness-of-fit tests.

6.2 Further Research

Some further research interests as a conclusion of this study are listed below.

1. The study brought out the most powerful test statistic (V) proposed so far. It has been seen that even the reflection method cannot give too much improvement to its power. Therefore, we believe that a modification to this statistic can be brought by way of an improvement in the estimation method. The computer code CMLE can be modified at least by reducing the tolerance and increasing the iteration number.

2. V statistic can be applied to the other interesting distributions such as the Weibull and the Lambda.

3. The relation between the critical values and the sample size along with the significance levels can be investigated. Thus, more general tables can be generated.

4. More detailed studies can be accomplished on the sequential test by increasing the α level range of the individual tests.

5. The functional relation of the sequential test can be computed.

6. The relations of the different tests and combinations involved in the sequential tests can be investigated via 3-D graphics.

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Appendix A. Computer Code For Critical Values

A.1 FORTRAN Code for Critical Values of Reflected Tests

```
      COMMON XX(10000),P1,NR1,RN,K1
       INTEGER NR1,K2
       REAL MEDIAN,MO,MS,BO,BS,ZO,ZS,SLOPED,SLOPEV
       REAL MLEL,MLES,X(50000),Y(50000)
       REAL R(10000),DISA(100000),DISB(100000),PP(100002),
     1  D(100000),V(100000)
       REAL AD01,CM01,AD05,CM05,AD10,CM10,AD15,CM15,AD20,CM20
       DOUBLE PRECISION DSEED1,U(10000)
       DSEED1=432157.0D0
      PRINT *,'*******  CAUCHY REFLECTED CRITICAL VALUE TABLE  *******'
      REP=50000
      PRINT *,'with',REP,'replications'
      DO 10 I=1,REP+1
        PP(I)=(I-.3)/(REP+.4)
10    CONTINUE
      DO 500 K1=5,50,5
      PRINT *,''
      PRINT *,'For sample size N=',K1,'    The CRITICAL values are'
      PRINT *,''
      K2=K1*2
       MM=K1/2
      NR1=K1
      SIZE=NR1*2
      AD01=0
      CM01=0
      AD05=0
      CM05=0
      AD10=0
      CM10=0
      AD15=0
      CM15=0
      AD20=0
      CM20=0
       CALL RNSET (DSEED1)
      DO 100 J=1,REP
*****************************************************
******       Generate the CAUCHY deviates       ******
      CALL RNCHY (NR1,R)
      DO 5 I=1,NR1
           XX(I)=R(I)*10.0+0.0
5     CONTINUE
*********************************
****** Order the Variates ******
      MM=K1-1
      DO 30 I=1,MM
         JM=K1-I
         DO 20 K=1,JM
            IF(XX(K).LT.XX(K+1)) GO TO 20
                 TEMP=XX(K)
                 XX(K)=XX(K+1)
                 XX(K+1)=TEMP
20       CONTINUE
30     CONTINUE
      IF (MOD(NR1,2).EQ.0) THEN
      XMED=(XX(MM+1)+XX(MM))/2.0
      ELSE
      XMED=XX((NR1+1)/2)
      ENDIF
      MEDIAN=XMED
      SEMIQ=10.0
************************************
****** Estimate the parameters******
       CALL CMLE(MEDIAN,SEMIQ,MLEL,MLES)
************************************
****** Reflection about MLEL ******
      DO 32 I=1,K1
         Y(I)=XX(I)-MLEL
32     CONTINUE
       DO 34 I=1,K1
```

```
            X(I)=Y(I)+MLEL
            X(I+K1)=-Y(I)+MLEL
34      CONTINUE
        NM2=K2-1
        DO 37 I=1,NM2
              JM2=K2-1
              DO 35 K=1,JM2
              IF(X(K).LT.X(K+1)) GO TO 35
                TEM=X(K)
                X(K)=X(K+1)
                X(K+1)=TEM
35       CONTINUE
37       CONTINUE
        DO 50 I=1,K2
            U(I)=.5+.31831*ATAN((X(I)-MLEL)/MLES)
         IF (J.EQ.18) THEN
         ENDIF
50       CONTINUE
         DISB(J)=U(1)
         DISA(J)=(1/SIZE)-U(1)
         DO 60 I=2,K2
*********************************************************
******Compute the distance from above(2)/below(1)******
         D1=U(I)-((I-1)/SIZE)
         IF (D1.GT.DISB(J)) DISB(J)=D1
         D2=(I/SIZE)-U(I)
         IF (D2.GT.DISA(J)) DISA(J)=D2
60       CONTINUE
         IF (DISA(J).GT.DISB(J)) THEN
             D(J)=DISA(J)
         ELSE
             D(J)=DISB(J)
         ENDIF
         V(J)=DISA(J)+DISB(J)
100     CONTINUE
*************************************
******Order The Edf Statistics  ******
        NM=REP-1
        DO 300 I=1,NM
           JM=REP-I
           DO 200 K=1,JM
              IF(D(K).LT.D(K+1)) GO TO 200
                   TEMP=D(K)
                   D(K)=D(K+1)
                   D(K+1)=TEMP
200        CONTINUE
300      CONTINUE
        DO 305 I=1,NM
           JM=REP-I
           DO 205 K=1,JM
              IF(V(K).LT.V(K+1)) GO TO 205
                   TEMP=V(K)
                   V(K)=V(K+1)
                   V(K+1)=TEMP
205        CONTINUE
305      CONTINUE
*********************************************
******Critical Value Computation For KS******
       IF ((D(2)-D(1)).EQ.0.0) D(2)=D(2)*1.00001
       M0=(PP(2)-PP(1))/(D(2)-D(1))
       B0=PP(1)-M0*D(1)
       Z0=(0.0-B0)/M0
       IF (Z0.GE.0.0) THEN
         D(0)=Z0
       ELSE
         D(0)=0.0
       ENDIF
       IF ((D(REP)-D(REP-1)).EQ.0.0) D(REP)=D(REP)*1.00001
       MS=(PP(REP)-PP(REP-1))/(D(REP)-D(REP-1))
       BS=PP(REP-1)-MS*D(1)
       ZS=(1.0-BS)/MS
       D(REP+1)=ZS
*********************************************
******Critical Value Computation For KUIPER******
       IF ((V(2)-V(1)).EQ.0.0) V(2)=V(2)*1.00001
```

```
      M0=(PP(2)-PP(1))/(V(2)-V(1))
      B0=PP(1)-M0*V(1)
      Z0=(0.0-B0)/M0
      IF (Z0.GE.0.0) THEN
        V(0)=Z0
      ELSE
        V(0)=0.0
      ENDIF
      IF ((V(REP)-V(REP-1)).EQ.0.0) V(REP)=V(REP)*1.00001
      MS=(PP(REP)-PP(REP-1))/(V(REP)-V(REP-1))
      BS=PP(REP-1)-MS*V(1)
      ZS=(1.0-BS)/MS
      V(REP+1)=ZS
       DO 410 P=80,95,5
       DO 420 II=1,REP
       I=REP+1-II
       IF (PP(I).LT.(P/100.0)) THEN
       IF (D(I+1).EQ.D(I)) D(I+1)=D(I)*1.00001
       IF (V(I+1).EQ.V(I)) V(I+1)=V(I)*1.00001
       SLOPED=(PP(I+1)-PP(I))/(D(I+1)-D(I))
       SLOPEV=(PP(I+1)-PP(I))/(V(I+1)-V(I))
       ZD=-SLOPED*D(I)+PP(I)
       ZV=-SLOPEV*V(I)+PP(I)
       PERD=((P/100.0)-ZD)/SLOPED
       PERV=((P/100.0)-ZV)/SLOPEV
       PRINT *,'The',P,'th percentile for D IS ',PERD,'    for V',PERV
       GO TO 410
       END IF
420    CONTINUE
410    CONTINUE
       DO 430 II=1,REP
       I=REP+1-II
       IF (PP(I).LT..99) THEN
       IF (D(I+1).EQ.D(I)) D(I+1)=D(I)*1.00001
       IF (V(I+1).EQ.V(I)) V(I+1)=V(I)*1.00001
       GO TO 450
       END IF
430    CONTINUE
450    SLOPED=(PP(I+1)-PP(I))/(D(I+1)-D(I))
       SLOPEV=(PP(I+1)-PP(I))/(V(I+1)-V(I))
       ZD=-SLOPED*D(I)+PP(I)
       ZV=-SLOPEV*V(I)+PP(I)
       PERD=(.99-ZD)/SLOPED
       PERV=(.99-ZV)/SLOPEV
       PRINT *,'The',99.,'th percentile for D IS ',PERD,'    for V',PERV
500   CONTINUE
       STOP
       END

      SUBROUTINE CMLE(MEDIAN,SEMIQ,MLEL,MLES)
      COMMON XX(10000),P1,NR1,RN,K1
      REAL MLEL,MLES,MEDIAN,MLELT,MLEST,MLESSQ
      MLEL=MEDIAN
      MLES=SEMIQ
      IMAX=100
      ITER=0
40    MLELT=MLEL
      MLEST=MLES
      SUM0=0
      SUM1=0
      MLESSQ=MLES**2
      DO 41 I=1,K1
      Z=MLESSQ+(XX(I)-MLEL)**2
      SUM0=SUM0+1./Z
      SUM1=SUM1+XX(I)/Z
41    CONTINUE
      TMLES=DFLOAT(K1)/2.D0/SUM0/MLES**(1.5)
      MLES=TMLES**2
      MLEL=SUM1/SUM0
      ITER=ITER+1
      IF (ITER.GT.IMAX) GO TO 45
      IF (ABS(MLEL-MLELT).GT..001*MLES) GO TO 40
      IF (ABS(MLES-MLEST).GT..05*MLES) GO TO 40
45    RETURN
      END
```

A.2 *FORTRAN Code for Significance Levels of Sequential Tests*

```
      COMMON X(10000),P1,NR1,RN,K1
       INTEGER NR1,DD,VV,ROW,COL
       PARAMETER (ROW=20,COL=20)
       REAL MEDIAN,SEQ(1:ROW,1:COL)
       REAL MLEL,MLES
       REAL R(10000),DISA(50000),DISB(50000),
     1  D(50000),V(50000)
       DOUBLE PRECISION DSEED1,DSEED2,U(10000)
       DSEED1=432157.0D0
       DSEED2=321457.0D0
      REP=50000
**********************************
******Sequential Test Program******
**********************************
      PRINT *,'**SEQUENTIAL TEST - KS(cols) and V(rows)**'
      DO 500 K1=5,50,5
      PRINT *,'****Sample Size N=',K1,'****'
       MN=K1/2
      NR1=K1
      SIZE=NR1

      DO 1 DS=1,20
          DO 2 VS=1,20
            SEQ(VS,DS)=0
2       CONTINUE
1     CONTINUE

       CALL RNSET (DSEED1)
      DO 200 J=1,REP
**********************************
******Generate Cauchy deviates******
**********************************
15    CALL RNCHY (NR1,R)
      DO 10 I=1,NR1
           X(I)=R(I)*10.0+0.0
10     CONTINUE
*******************************
******Order The Variates******
*******************************
      NM=K1-1
      DO 30 I=1,NM
         JM=K1-I
         DO 20 K=1,JM
            IF(X(K).LT.X(K+1)) GO TO 20
                 TEMP=X(K)
                 X(K)=X(K+1)
                 X(K+1)=TEMP
20       CONTINUE
30     CONTINUE
      IF (MOD(NR1,2).EQ.0) THEN
      XMED=(X(MN+1)+X(MN))/2.0
      ELSE
      XMED=X((NR1+1)/2)
      ENDIF
      MEDIAN=XMED
      SEMIQ=10.0
**********************************
******Estimate The Parameters******
**********************************
       CALL CMLE(MEDIAN,SEMIQ,MLEL,MLES)
      DO 50 I=1,K1
          U(I)=.5+.31831*ATAN((X(I)-MLEL)/MLES)
50     CONTINUE
       DISB(J)=(U(1))
       DISA(J)=(1/SIZE-U(1))
       DO 60 I=2,K1
       D1=(U(I)-(I-1)/SIZE)
       IF (D1.GT.DISB(J)) DISB(J)=D1
       D2=(I/SIZE)-U(I)
       IF (D2.GT.DISA(J)) DISA(J)=D2
60     CONTINUE
       IF (DISA(J).GT.DISB(J)) THEN
           D(J)=DISA(J)
       ELSE
```

```
          D(J)=DISB(J)
        ENDIF
        V(J)=DISA(J)+DISB(J)
*************************************************
        IF (K1.EQ.5) GO TO 105
        IF (K1.EQ.10) GO TO 110
        IF (K1.EQ.15) GO TO 115
        IF (K1.EQ.20) GO TO 120
        IF (K1.EQ.25) GO TO 125
        IF (K1.EQ.30) GO TO 130
        IF (K1.EQ.35) GO TO 135
        IF (K1.EQ.40) GO TO 140
        IF (K1.EQ.45) GO TO 145
        IF (K1.EQ.50) GO TO 150
*** Critical value comparison for n=5***
105     IF (D(J).LT.0.380567) DD=1
        IF (D(J).LT.0.369788) DD=2
        IF (D(J).LT.0.361987) DD=3
        IF (D(J).LT.0.355043) DD=4
        IF (D(J).LT.0.348933) DD=5
        IF (D(J).LT.0.343422) DD=6
        IF (D(J).LT.0.337933) DD=7
        IF (D(J).LT.0.332890) DD=8
        IF (D(J).LT.0.328241) DD=9
        IF (D(J).LT.0.323392) DD=10
        IF (D(J).LT.0.318941) DD=11
        IF (D(J).LT.0.314618) DD=12
        IF (D(J).LT.0.310907) DD=13
        IF (D(J).LT.0.307330) DD=14
        IF (D(J).LT.0.303510) DD=15
        IF (D(J).LT.0.300244) DD=16
        IF (D(J).LT.0.296831) DD=17
        IF (D(J).LT.0.293855) DD=18
        IF (D(J).LT.0.290779) DD=19
        IF (D(J).LT.0.287831) DD=20
              IF (V(J).LT.0.406213) VV=1
              IF (V(J).LT.0.401048) VV=2
              IF (V(J).LT.0.399306) VV=3
              IF (V(J).LT.0.398356) VV=4
              IF (V(J).LT.0.397407) VV=5
              IF (V(J).LT.0.396364) VV=6
              IF (V(J).LT.0.395401) VV=7
              IF (V(J).LT.0.394481) VV=8
              IF (V(J).LT.0.393514) VV=9
              IF (V(J).LT.0.392542) VV=10
              IF (V(J).LT.0.391471) VV=11
              IF (V(J).LT.0.390410) VV=12
              IF (V(J).LT.0.389397) VV=13
              IF (V(J).LT.0.388354) VV=14
              IF (V(J).LT.0.387390) VV=15
              IF (V(J).LT.0.386293) VV=16
              IF (V(J).LT.0.385183) VV=17
              IF (V(J).LT.0.384115) VV=18
              IF (V(J).LT.0.383058) VV=19
              IF (V(J).LT.0.381950) VV=20
        GO TO 100
*** Critical value comparison for n=10***
110     IF (D(J).LT.0.300736) DD=1
        IF (D(J).LT.0.283081) DD=2
        IF (D(J).LT.0.271974) DD=3
        IF (D(J).LT.0.264046) DD=4
        IF (D(J).LT.0.257959) DD=5
        IF (D(J).LT.0.252206) DD=6
        IF (D(J).LT.0.247566) DD=7
        IF (D(J).LT.0.243206) DD=8
        IF (D(J).LT.0.239227) DD=9
        IF (D(J).LT.0.235709) DD=10
        IF (D(J).LT.0.232655) DD=11
        IF (D(J).LT.0.229364) DD=12
        IF (D(J).LT.0.226272) DD=13
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            IF (D(J).LT.0.223445) DD=14
            IF (D(J).LT.0.220736) DD=15
            IF (D(J).LT.0.218305) DD=16
            IF (D(J).LT.0.216093) DD=17
            IF (D(J).LT.0.213831) DD=18
            IF (D(J).LT.0.211597) DD=19
            IF (D(J).LT.0.209504) DD=20
                  IF (V(J).LT.0.362358) VV=1
                  IF (V(J).LT.0.350301) VV=2
                  IF (V(J).LT.0.342236) VV=3
                  IF (V(J).LT.0.335947) VV=4
                  IF (V(J).LT.0.330308) VV=5
                  IF (V(J).LT.0.325581) VV=6
                  IF (V(J).LT.0.321081) VV=7
                  IF (V(J).LT.0.317228) VV=8
                  IF (V(J).LT.0.313804) VV=9
                  IF (V(J).LT.0.310818) VV=10
                  IF (V(J).LT.0.307851) VV=11
                  IF (V(J).LT.0.305186) VV=12
                  IF (V(J).LT.0.302568) VV=13
                  IF (V(J).LT.0.300115) VV=14
                  IF (V(J).LT.0.297784) VV=15
                  IF (V(J).LT.0.295750) VV=16
                  IF (V(J).LT.0.293806) VV=17
                  IF (V(J).LT.0.291948) VV=18
                  IF (V(J).LT.0.290337) VV=19
                  IF (V(J).LT.0.288634) VV=20
            GO TO 100
*** Critical value comparison for n=15***
115         IF (D(J).LT.0.253469) DD=1
            IF (D(J).LT.0.237608) DD=2
            IF (D(J).LT.0.228320) DD=3
            IF (D(J).LT.0.221104) DD=4
            IF (D(J).LT.0.215367) DD=5
            IF (D(J).LT.0.210458) DD=6
            IF (D(J).LT.0.206223) DD=7
            IF (D(J).LT.0.202805) DD=8
            IF (D(J).LT.0.199756) DD=9
            IF (D(J).LT.0.196782) DD=10
            IF (D(J).LT.0.193836) DD=11
            IF (D(J).LT.0.191257) DD=12
            IF (D(J).LT.0.188895) DD=13
            IF (D(J).LT.0.186550) DD=14
            IF (D(J).LT.0.184310) DD=15
            IF (D(J).LT.0.182287) DD=16
            IF (D(J).LT.0.180414) DD=17
            IF (D(J).LT.0.178587) DD=18
            IF (D(J).LT.0.176964) DD=19
            IF (D(J).LT.0.175249) DD=20
                  IF (V(J).LT.0.308774) VV=1
                  IF (V(J).LT.0.297009) VV=2
                  IF (V(J).LT.0.288803) VV=3
                  IF (V(J).LT.0.282916) VV=4
                  IF (V(J).LT.0.278230) VV=5
                  IF (V(J).LT.0.274196) VV=6
                  IF (V(J).LT.0.270512) VV=7
                  IF (V(J).LT.0.267593) VV=8
                  IF (V(J).LT.0.264757) VV=9
                  IF (V(J).LT.0.261920) VV=10
                  IF (V(J).LT.0.259468) VV=11
                  IF (V(J).LT.0.257261) VV=12
                  IF (V(J).LT.0.255208) VV=13
                  IF (V(J).LT.0.253388) VV=14
                  IF (V(J).LT.0.251576) VV=15
                  IF (V(J).LT.0.249770) VV=16
                  IF (V(J).LT.0.248089) VV=17
                  IF (V(J).LT.0.246536) VV=18
                  IF (V(J).LT.0.245045) VV=19
                  IF (V(J).LT.0.243568) VV=20
            GO TO 100
```

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*** Critical value comparison for n=20***
120       IF (D(J).LT.0.221813) DD=1
          IF (D(J).LT.0.208350) DD=2
          IF (D(J).LT.0.199741) DD=3
          IF (D(J).LT.0.193599) DD=4
          IF (D(J).LT.0.188666) DD=5
          IF (D(J).LT.0.184171) DD=6
          IF (D(J).LT.0.180481) DD=7
          IF (D(J).LT.0.177140) DD=8
          IF (D(J).LT.0.174303) DD=9
          IF (D(J).LT.0.171635) DD=10
          IF (D(J).LT.0.169235) DD=11
          IF (D(J).LT.0.166992) DD=12
          IF (D(J).LT.0.164778) DD=13
          IF (D(J).LT.0.162722) DD=14
          IF (D(J).LT.0.160981) DD=15
          IF (D(J).LT.0.159245) DD=16
          IF (D(J).LT.0.157675) DD=17
          IF (D(J).LT.0.156060) DD=18
          IF (D(J).LT.0.154428) DD=19
          IF (D(J).LT.0.153013) DD=20
                IF (V(J).LT.0.272266) VV=1
                IF (V(J).LT.0.261501) VV=2
                IF (V(J).LT.0.254443) VV=3
                IF (V(J).LT.0.249244) VV=4
                IF (V(J).LT.0.244890) VV=5
                IF (V(J).LT.0.241337) VV=6
                IF (V(J).LT.0.238144) VV=7
                IF (V(J).LT.0.235413) VV=8
                IF (V(J).LT.0.233092) VV=9
                IF (V(J).LT.0.230918) VV=10
                IF (V(J).LT.0.228931) VV=11
                IF (V(J).LT.0.226946) VV=12
                IF (V(J).LT.0.225199) VV=13
                IF (V(J).LT.0.223500) VV=14
                IF (V(J).LT.0.221941) VV=15
                IF (V(J).LT.0.220377) VV=16
                IF (V(J).LT.0.218890) VV=17
                IF (V(J).LT.0.217570) VV=18
                IF (V(J).LT.0.216145) VV=19
                IF (V(J).LT.0.214768) VV=20
          GO TO 100
*** Critical value comparison for n=25***
125       IF (D(J).LT.0.198853) DD=1
          IF (D(J).LT.0.187080) DD=2
          IF (D(J).LT.0.179512) DD=3
          IF (D(J).LT.0.174201) DD=4
          IF (D(J).LT.0.169580) DD=5
          IF (D(J).LT.0.165823) DD=6
          IF (D(J).LT.0.162712) DD=7
          IF (D(J).LT.0.159830) DD=8
          IF (D(J).LT.0.157231) DD=9
          IF (D(J).LT.0.154988) DD=10
          IF (D(J).LT.0.152789) DD=11
          IF (D(J).LT.0.150769) DD=12
          IF (D(J).LT.0.148873) DD=13
          IF (D(J).LT.0.147024) DD=14
          IF (D(J).LT.0.145242) DD=15
          IF (D(J).LT.0.143695) DD=16
          IF (D(J).LT.0.142172) DD=17
          IF (D(J).LT.0.140796) DD=18
          IF (D(J).LT.0.139463) DD=19
          IF (D(J).LT.0.138109) DD=20
                IF (V(J).LT.0.246377) VV=1
                IF (V(J).LT.0.236634) VV=2
                IF (V(J).LT.0.230419) VV=3
                IF (V(J).LT.0.225317) VV=4
                IF (V(J).LT.0.221437) VV=5
                IF (V(J).LT.0.218211) VV=6
                IF (V(J).LT.0.215616) VV=7
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                IF (V(J).LT.0.213088) VV=8
                IF (V(J).LT.0.210855) VV=9
                IF (V(J).LT.0.208693) VV=10
                IF (V(J).LT.0.206684) VV=11
                IF (V(J).LT.0.204962) VV=12
                IF (V(J).LT.0.203246) VV=13
                IF (V(J).LT.0.201698) VV=14
                IF (V(J).LT.0.200177) VV=15
                IF (V(J).LT.0.198669) VV=16
                IF (V(J).LT.0.197300) VV=17
                IF (V(J).LT.0.196057) VV=18
                IF (V(J).LT.0.194778) VV=19
                IF (V(J).LT.0.193583) VV=20
        GO TO 100
*** Critical value comparison for n=30***
130     IF (D(J).LT.0.182721) DD=1
        IF (D(J).LT.0.171452) DD=2
        IF (D(J).LT.0.164330) DD=3
        IF (D(J).LT.0.159264) DD=4
        IF (D(J).LT.0.155299) DD=5
        IF (D(J).LT.0.151834) DD=6
        IF (D(J).LT.0.148830) DD=7
        IF (D(J).LT.0.146359) DD=8
        IF (D(J).LT.0.143938) DD=9
        IF (D(J).LT.0.141785) DD=10
        IF (D(J).LT.0.139843) DD=11
        IF (D(J).LT.0.137943) DD=12
        IF (D(J).LT.0.136302) DD=13
        IF (D(J).LT.0.134623) DD=14
        IF (D(J).LT.0.133113) DD=15
        IF (D(J).LT.0.131736) DD=16
        IF (D(J).LT.0.130474) DD=17
        IF (D(J).LT.0.129141) DD=18
        IF (D(J).LT.0.127830) DD=19
        IF (D(J).LT.0.126582) DD=20
                IF (V(J).LT.0.227202) VV=1
                IF (V(J).LT.0.217478) VV=2
                IF (V(J).LT.0.211992) VV=3
                IF (V(J).LT.0.207429) VV=4
                IF (V(J).LT.0.203890) VV=5
                IF (V(J).LT.0.201014) VV=6
                IF (V(J).LT.0.198412) VV=7
                IF (V(J).LT.0.196181) VV=8
                IF (V(J).LT.0.194252) VV=9
                IF (V(J).LT.0.192283) VV=10
                IF (V(J).LT.0.190582) VV=11
                IF (V(J).LT.0.188937) VV=12
                IF (V(J).LT.0.187467) VV=13
                IF (V(J).LT.0.185989) VV=14
                IF (V(J).LT.0.184601) VV=15
                IF (V(J).LT.0.183225) VV=16
                IF (V(J).LT.0.181969) VV=17
                IF (V(J).LT.0.180705) VV=18
                IF (V(J).LT.0.179487) VV=19
                IF (V(J).LT.0.178265) VV=20
        GO TO 100
*** Critical value comparison for n=35***
135     IF (D(J).LT.0.170239) DD=1
        IF (D(J).LT.0.159752) DD=2
        IF (D(J).LT.0.153135) DD=3
        IF (D(J).LT.0.148172) DD=4
        IF (D(J).LT.0.144396) DD=5
        IF (D(J).LT.0.141216) DD=6
        IF (D(J).LT.0.138287) DD=7
        IF (D(J).LT.0.135962) DD=8
        IF (D(J).LT.0.133732) DD=9
        IF (D(J).LT.0.131807) DD=10
        IF (D(J).LT.0.129886) DD=11
        IF (D(J).LT.0.128181) DD=12
        IF (D(J).LT.0.126688) DD=13
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          IF (D(J).LT.0.125227) DD=14
          IF (D(J).LT.0.123711) DD=15
          IF (D(J).LT.0.122321) DD=16
          IF (D(J).LT.0.121011) DD=17
          IF (D(J).LT.0.119784) DD=18
          IF (D(J).LT.0.118646) DD=19
          IF (D(J).LT.0.117512) DD=20
                IF (V(J).LT.0.212538) VV=1
                IF (V(J).LT.0.203578) VV=2
                IF (V(J).LT.0.197711) VV=3
                IF (V(J).LT.0.193327) VV=4
                IF (V(J).LT.0.189974) VV=5
                IF (V(J).LT.0.187059) VV=6
                IF (V(J).LT.0.184746) VV=7
                IF (V(J).LT.0.182545) VV=8
                IF (V(J).LT.0.180675) VV=9
                IF (V(J).LT.0.179019) VV=10
                IF (V(J).LT.0.177468) VV=11
                IF (V(J).LT.0.175884) VV=12
                IF (V(J).LT.0.174378) VV=13
                IF (V(J).LT.0.172864) VV=14
                IF (V(J).LT.0.171636) VV=15
                IF (V(J).LT.0.170427) VV=16
                IF (V(J).LT.0.169177) VV=17
                IF (V(J).LT.0.168085) VV=18
                IF (V(J).LT.0.167000) VV=19
                IF (V(J).LT.0.165903) VV=20
          GO TO 100
*** Critical value comparison for n=40***
140       IF (D(J).LT.0.159956) DD=1
          IF (D(J).LT.0.149670) DD=2
          IF (D(J).LT.0.143634) DD=3
          IF (D(J).LT.0.138845) DD=4
          IF (D(J).LT.0.135528) DD=5
          IF (D(J).LT.0.132450) DD=6
          IF (D(J).LT.0.129914) DD=7
          IF (D(J).LT.0.127592) DD=8
          IF (D(J).LT.0.125530) DD=9
          IF (D(J).LT.0.123610) DD=10
          IF (D(J).LT.0.121836) DD=11
          IF (D(J).LT.0.120266) DD=12
          IF (D(J).LT.0.118752) DD=13
          IF (D(J).LT.0.117374) DD=14
          IF (D(J).LT.0.116023) DD=15
          IF (D(J).LT.0.114694) DD=16
          IF (D(J).LT.0.113451) DD=17
          IF (D(J).LT.0.112369) DD=18
          IF (D(J).LT.0.111279) DD=19
          IF (D(J).LT.0.110250) DD=20
                IF (V(J).LT.0.199685) VV=1
                IF (V(J).LT.0.191145) VV=2
                IF (V(J).LT.0.185943) VV=3
                IF (V(J).LT.0.181868) VV=4
                IF (V(J).LT.0.178778) VV=5
                IF (V(J).LT.0.176310) VV=6
                IF (V(J).LT.0.173819) VV=7
                IF (V(J).LT.0.171645) VV=8
                IF (V(J).LT.0.169764) VV=9
                IF (V(J).LT.0.168041) VV=10
                IF (V(J).LT.0.166354) VV=11
                IF (V(J).LT.0.165000) VV=12
                IF (V(J).LT.0.163594) VV=13
                IF (V(J).LT.0.162283) VV=14
                IF (V(J).LT.0.161187) VV=15
                IF (V(J).LT.0.160025) VV=16
                IF (V(J).LT.0.158961) VV=17
                IF (V(J).LT.0.157959) VV=18
                IF (V(J).LT.0.156938) VV=19
                IF (V(J).LT.0.155927) VV=20
          GO TO 100
```

```
*** Critical value comparison for n=45***
145       IF (D(J).LT.0.151557) DD=1
          IF (D(J).LT.0.141146) DD=2
          IF (D(J).LT.0.135584) DD=3
          IF (D(J).LT.0.131852) DD=4
          IF (D(J).LT.0.128573) DD=5
          IF (D(J).LT.0.125774) DD=6
          IF (D(J).LT.0.123326) DD=7
          IF (D(J).LT.0.121143) DD=8
          IF (D(J).LT.0.119117) DD=9
          IF (D(J).LT.0.117159) DD=10
          IF (D(J).LT.0.115522) DD=11
          IF (D(J).LT.0.113931) DD=12
          IF (D(J).LT.0.112663) DD=13
          IF (D(J).LT.0.111251) DD=14
          IF (D(J).LT.0.110043) DD=15
          IF (D(J).LT.0.108849) DD=16
          IF (D(J).LT.0.107602) DD=17
          IF (D(J).LT.0.106551) DD=18
          IF (D(J).LT.0.105490) DD=19
          IF (D(J).LT.0.104548) DD=20
                IF (V(J).LT.0.189803) VV=1
                IF (V(J).LT.0.181228) VV=2
                IF (V(J).LT.0.176167) VV=3
                IF (V(J).LT.0.172471) VV=4
                IF (V(J).LT.0.169454) VV=5
                IF (V(J).LT.0.166867) VV=6
                IF (V(J).LT.0.164517) VV=7
                IF (V(J).LT.0.162604) VV=8
                IF (V(J).LT.0.160797) VV=9
                IF (V(J).LT.0.159004) VV=10
                IF (V(J).LT.0.157581) VV=11
                IF (V(J).LT.0.156273) VV=12
                IF (V(J).LT.0.154957) VV=13
                IF (V(J).LT.0.153699) VV=14
                IF (V(J).LT.0.152553) VV=15
                IF (V(J).LT.0.151480) VV=16
                IF (V(J).LT.0.150426) VV=17
                IF (V(J).LT.0.149477) VV=18
                IF (V(J).LT.0.148526) VV=19
                IF (V(J).LT.0.147584) VV=20
          GO TO 100
*** Critical value comparison for n=50***
150       IF (D(J).LT.0.142628) DD=1
          IF (D(J).LT.0.134397) DD=2
          IF (D(J).LT.0.128985) DD=3
          IF (D(J).LT.0.125116) DD=4
          IF (D(J).LT.0.122067) DD=5
          IF (D(J).LT.0.119323) DD=6
          IF (D(J).LT.0.116828) DD=7
          IF (D(J).LT.0.114729) DD=8
          IF (D(J).LT.0.112857) DD=9
          IF (D(J).LT.0.111227) DD=10
          IF (D(J).LT.0.109757) DD=11
          IF (D(J).LT.0.108321) DD=12
          IF (D(J).LT.0.106924) DD=13
          IF (D(J).LT.0.105594) DD=14
          IF (D(J).LT.0.104346) DD=15
          IF (D(J).LT.0.103153) DD=16
          IF (D(J).LT.0.102147) DD=17
          IF (D(J).LT.0.101102) DD=18
          IF (D(J).LT.0.100134) DD=19
          IF (D(J).LT.0.0991541) DD=20
                IF (V(J).LT.0.179543) VV=1
                IF (V(J).LT.0.171780) VV=2
                IF (V(J).LT.0.167313) VV=3
                IF (V(J).LT.0.163940) VV=4
                IF (V(J).LT.0.160997) VV=5
                IF (V(J).LT.0.158580) VV=6
                IF (V(J).LT.0.156534) VV=7
```

```
                IF (V(J).LT.0.154742) VV=8
                IF (V(J).LT.0.153066) VV=9
                IF (V(J).LT.0.151704) VV=10
                IF (V(J).LT.0.150167) VV=11
                IF (V(J).LT.0.148859) VV=12
                IF (V(J).LT.0.147677) VV=13
                IF (V(J).LT.0.146550) VV=14
                IF (V(J).LT.0.145487) VV=15
                IF (V(J).LT.0.144456) VV=16
                IF (V(J).LT.0.143460) VV=17
                IF (V(J).LT.0.142501) VV=18
                IF (V(J).LT.0.141550) VV=19
                IF (V(J).LT.0.140647) VV=20
          GO TO 100
100     DO 101 DS=1,DD
          DO 102 VS=1,VV
            SEQ(VS,DS)=SEQ(VS,DS)+1
102       CONTINUE
101     CONTINUE
200   CONTINUE
        DO 201 DS=1,20
          DO 202 VS=1,20
            SEQ(VS,DS)=1-(SEQ(VS,DS)/REP)
202       CONTINUE
201     CONTINUE
        PRINT 400,((SEQ(RO,CO), CO=1,COL),RO=1,ROW)
400 FORMAT(5(2X,20F6.5/))
500   CONTINUE
1000  CONTINUE
       STOP
       END

      SUBROUTINE CMLE(MEDIAN,SEMIQ,MLEL,MLES)
      COMMON X(10000),P1,MR1,RN,K1
      REAL MLEL,MLES,MEDIAN,MLELT,MLEST,MLESSQ
      MLEL=MEDIAN
      MLES=SEMIQ
      IMAX=100
      ITER=0
40    MLELT=MLEL
      MLEST=MLES
      SUM0=0
      SUM1=0
      MLESSQ=MLES**2
      DO 41 I=1,K1
      Z=MLESSQ+(X(I)-MLEL)**2
      SUM0=SUM0+1./Z
      SUM1=SUM1+X(I)/Z
41    CONTINUE
      TMLES=DFLOAT(K1)/2.D0/SUM0/MLES**(1.5)
      MLES=TMLES**2
      MLEL=SUM1/SUM0
      ITER=ITER+1
      IF (ITER.GT.IMAX) GO TO 45
      IF (ABS(MLEL-MLELT).GT..001*MLES) GO TO 40
      IF (ABS(MLES-MLEST).GT..05*MLES) GO TO 40
45    RETURN
      END
```

Appendix B. Computer Code For Power Studies

B.1 FORTRAN Code for Power Study of Standard Tests

```
      COMMON X(10000),P1,NR1,RN,K1
       INTEGER NR1
       REAL MEDIAN
       REAL MLEL,MLES
       REAL R(10000),DISA(50000),DISB(50000),
     1  D(50000),V(50000)
       REAL D01,V01,D05,V05,D10,V10,D15,V15,D20,V20
       DOUBLE PRECISION DSEED1,DSEED2,U(10000)
       DSEED1=432157.0D0
       DSEED2=321457.0D0
      PRINT *,'******* power for distributions  *******'
      REP=50000
      PRINT *,'using',REP,'replications'
      DO 1000 TYPE=1,6
       IF (TYPE.EQ.1) PRINT *,'***PWR CAUCHY***'
       IF (TYPE.EQ.2) PRINT *,'***PWR NORMAL***'
       IF (TYPE.EQ.3) PRINT *,'***PWR EXPONENTIAL***'
       IF (TYPE.EQ.4) PRINT *,'***PWR BETA(3,3)***'
       IF (TYPE.EQ.5) PRINT *,'***PWR GAMMA***'
       IF (TYPE.EQ.6) PRINT *,'***PWR WEIBULL***'
      DO 500 K1=5,50,5
       MM=K1/2
      NR1=K1
      SIZE=NR1
      D01=0
      V01=0
      D05=0
      V05=0
      D10=0
      V10=0
      D15=0
      V15=0
      D20=0
      V20=0
       CALL RNSET (DSEED1)
      DO 100 J=1,REP
*********************************************************
******Generate The Deviates From The Distributions******
*********************************************************
      IF(TYPE.EQ.1) GO TO 1
      IF(TYPE.EQ.2) GO TO 2
      IF(TYPE.EQ.3) GO TO 3
      IF(TYPE.EQ.4) GO TO 4
      IF(TYPE.EQ.5) GO TO 5
      IF(TYPE.EQ.6) GO TO 6
1      CALL RNCHY (NR1,R)
        GO TO 15
2      CALL RNNOR (NR1,R)
        GO TO 15
3      CALL RNEXP (NR1,R)
        GO TO 15
4      CALL RNBET (NR1,2.,3.,R)
        GO TO 15
5      CALL RNGAM (NR1,2.,R)
        GO TO 15
6      CALL RNWIB (NR1,3.5,R)
15      DO 10 I=1,NR1
           X(I)=R(I)*10.0+0.0
10     CONTINUE
******************************
******Order the Variates******
******************************
      NM=K1-1
      DO 30 I=1,NM
         JM=K1-I
         DO 20 K=1,JM
            IF(X(K).LT.X(K+1)) GO TO 20
                 TEMP=X(K)
```

```
                X(K)=X(K+1)
                X(K+1)=TEMP
20      CONTINUE
30     CONTINUE
      IF (MOD(NR1,2).EQ.0) THEN
      XMED=(X(MN+1)+X(MN))/2.0
      ELSE
      XMED=X((NR1+1)/2)
      ENDIF
      MEDIAN=XMED
      SEMIQ=10.0
**********************************
******Estimate The Parameters******
**********************************
      CALL CMLE(MEDIAN,SEMIQ,MLEL,MLES)
      DO 50 I=1,K1
          U(I)=.5+.31831*ATAN((X(I)-MLEL)/MLES)
50     CONTINUE
***********************************************
      DISB(J)=(U(1))
      DISA(J)=(1/SIZE-U(1))
      DO 60 I=2,K1
      D1=(U(I)-(I-1)/SIZE)
      IF (D1.GT.DISB(J)) DISB(J)=D1
      D2=(I/SIZE)-U(I)
      IF (D2.GT.DISA(J)) DISA(J)=D2
60     CONTINUE
      IF (DISA(J).GT.DISB(J)) THEN
          D(J)=DISA(J)
      ELSE
          D(J)=DISB(J)
      ENDIF
      V(J)=DISA(J)+DISB(J)
***************************************************
      IF (K1.EQ.5) GO TO 105
      IF (K1.EQ.10) GO TO 110
      IF (K1.EQ.15) GO TO 115
      IF (K1.EQ.20) GO TO 120
      IF (K1.EQ.25) GO TO 125
      IF (K1.EQ.30) GO TO 130
      IF (K1.EQ.35) GO TO 135
      IF (K1.EQ.40) GO TO 140
      IF (K1.EQ.45) GO TO 145
      IF (K1.EQ.50) GO TO 150
*** Critical value comparison for n=5***
105      IF (D(J).GT.0.380567) D01=D01+1
         IF (D(J).GT.0.348933) D05=D05+1
         IF (D(J).GT.0.323392) D10=D10+1
         IF (D(J).GT.0.303510) D15=D15+1
         IF (D(J).GT.0.287831) D20=D20+1
          IF (V(J).GT.0.406213) V01=V01+1
          IF (V(J).GT.0.397407) V05=V05+1
          IF (V(J).GT.0.392542) V10=V10+1
          IF (V(J).GT.0.387390) V15=V15+1
          IF (V(J).GT.0.381950) V20=V20+1
         GO TO 100
*** Critical value comparison for n=10***
110      IF (D(J).GT.0.300736) D01=D01+1
         IF (D(J).GT.0.257959) D05=D05+1
         IF (D(J).GT.0.235709) D10=D10+1
         IF (D(J).GT.0.220736) D15=D15+1
         IF (D(J).GT.0.209504) D20=D20+1
          IF (V(J).GT.0.362358) V01=V01+1
          IF (V(J).GT.0.330308) V05=V05+1
          IF (V(J).GT.0.310818) V10=V10+1
          IF (V(J).GT.0.297784) V15=V15+1
          IF (V(J).GT.0.288634) V20=V20+1
         GO TO 100
*** Critical value comparison for n=15***
115      IF (D(J).GT.0.253469) D01=D01+1
         IF (D(J).GT.0.215367) D05=D05+1
         IF (D(J).GT.0.196782) D10=D10+1
```

```
          IF (D(J).GT.0.184310) D15=D15+1
          IF (D(J).GT.0.175249) D20=D20+1
           IF (V(J).GT.0.308774) V01=V01+1
           IF (V(J).GT.0.278230) V05=V05+1
           IF (V(J).GT.0.261920) V10=V10+1
           IF (V(J).GT.0.251576) V15=V15+1
           IF (V(J).GT.0.243568) V20=V20+1
          GO TO 100
*** Critical value comparison for n=20***
120       IF (D(J).GT.0.221813) D01=D01+1
          IF (D(J).GT.0.188666) D05=D05+1
          IF (D(J).GT.0.171635) D10=D10+1
          IF (D(J).GT.0.160981) D15=D15+1
          IF (D(J).GT.0.153013) D20=D20+1
           IF (V(J).GT.0.272266) V01=V01+1
           IF (V(J).GT.0.244890) V05=V05+1
           IF (V(J).GT.0.230918) V10=V10+1
           IF (V(J).GT.0.221941) V15=V15+1
           IF (V(J).GT.0.214768) V20=V20+1
          GO TO 100
*** Critical value comparison for n=25***
125       IF (D(J).GT.0.198853) D01=D01+1
          IF (D(J).GT.0.169580) D05=D05+1
          IF (D(J).GT.0.154988) D10=D10+1
          IF (D(J).GT.0.145242) D15=D15+1
          IF (D(J).GT.0.138109) D20=D20+1
           IF (V(J).GT.0.246377) V01=V01+1
           IF (V(J).GT.0.221437) V05=V05+1
           IF (V(J).GT.0.208693) V10=V10+1
           IF (V(J).GT.0.200177) V15=V15+1
           IF (V(J).GT.0.193583) V20=V20+1
          GO TO 100
*** Critical value comparison for n=30***
130       IF (D(J).GT.0.182721) D01=D01+1
          IF (D(J).GT.0.155299) D05=D05+1
          IF (D(J).GT.0.141785) D10=D10+1
          IF (D(J).GT.0.133113) D15=D15+1
          IF (D(J).GT.0.126582) D20=D20+1
           IF (V(J).GT.0.227202) V01=V01+1
           IF (V(J).GT.0.203890) V05=V05+1
           IF (V(J).GT.0.192283) V10=V10+1
           IF (V(J).GT.0.184601) V15=V15+1
           IF (V(J).GT.0.178265) V20=V20+1
          GO TO 100
*** Critical value comparison for n=35***
135       IF (D(J).GT.0.170239) D01=D01+1
          IF (D(J).GT.0.144396) D05=D05+1
          IF (D(J).GT.0.131807) D10=D10+1
          IF (D(J).GT.0.123711) D15=D15+1
          IF (D(J).GT.0.117512) D20=D20+1
           IF (V(J).GT.0.212538) V01=V01+1
           IF (V(J).GT.0.189974) V05=V05+1
           IF (V(J).GT.0.179019) V10=V10+1
           IF (V(J).GT.0.171636) V15=V15+1
           IF (V(J).GT.0.165903) V20=V20+1
          GO TO 100
*** Critical value comparison for n=40***
140       IF (D(J).GT.0.159956) D01=D01+1
          IF (D(J).GT.0.135528) D05=D05+1
          IF (D(J).GT.0.123610) D10=D10+1
          IF (D(J).GT.0.116023) D15=D15+1
          IF (D(J).GT.0.110250) D20=D20+1
           IF (V(J).GT.0.199685) V01=V01+1
           IF (V(J).GT.0.178778) V05=V05+1
           IF (V(J).GT.0.168041) V10=V10+1
           IF (V(J).GT.0.161187) V15=V15+1
           IF (V(J).GT.0.155927) V20=V20+1
          GO TO 100
*** Critical value comparison for n=45***
145       IF (D(J).GT.0.151557) D01=D01+1
          IF (D(J).GT.0.128573) D05=D05+1
```

```
          IF (D(J).GT.0.117159) D10=D10+1
          IF (D(J).GT.0.110043) D15=D15+1
          IF (D(J).GT.0.104548) D20=D20+1
           IF (V(J).GT.0.189803) V01=V01+1
           IF (V(J).GT.0.169454) V05=V05+1
           IF (V(J).GT.0.159004) V10=V10+1
           IF (V(J).GT.0.152553) V15=V15+1
           IF (V(J).GT.0.147584) V20=V20+1
          GO TO 100
*** Critical value comparison for n=50***
150       IF (D(J).GT.0.142628) D01=D01+1
          IF (D(J).GT.0.122067) D05=D05+1
          IF (D(J).GT.0.111227) D10=D10+1
          IF (D(J).GT.0.104346) D15=D15+1
          IF (D(J).GT.0.0991541) D20=D20+1
           IF (V(J).GT.0.179543) V01=V01+1
           IF (V(J).GT.0.160997) V05=V05+1
           IF (V(J).GT.0.151704) V10=V10+1
           IF (V(J).GT.0.145487) V15=V15+1
           IF (V(J).GT.0.140647) V20=V20+1
          GO TO 100
100    CONTINUE
        PRINT *,'For Sample size',NR1,'  the power for D and V'
        PRINT *,'D ALPHA  1=',D01/REP,'    V ALPHA   1=',V01/REP
        PRINT *,'D ALPHA  5=',D05/REP,'    V ALPHA   5=',V05/REP
        PRINT *,'D ALPHA 10=',D10/REP,'    V ALPHA  10=',V10/REP
        PRINT *,'D ALPHA 15=',D15/REP,'    V ALPHA  15=',V15/REP
        PRINT *,'D ALPHA 20=',D20/REP,'    V ALPHA  20=',V20/REP
500    CONTINUE
1000   CONTINUE
        STOP
        END

       SUBROUTINE CMLE(MEDIAN,SEMIQ,MLEL,MLES)
       COMMON X(10000),P1,NR1,RN,K1
       REAL MLEL,MLES,MEDIAN,MLELT,MLEST,MLESSQ
       MLEL=MEDIAN
       MLES=SEMIQ
       IMAX=100
       ITER=0
40     MLELT=MLEL
       MLEST=MLES
       SUM0=0
       SUM1=0
       MLESSQ=MLES**2
       DO 41 I=1,K1
       Z=MLESSQ+(X(I)-MLEL)**2
       SUM0=SUM0+1./Z
       SUM1=SUM1+X(I)/Z
41     CONTINUE
       TMLES=DFLOAT(K1)/2.D0/SUM0/MLES**(1.5)
       MLES=TMLES**2
       MLEL=SUM1/SUM0
       ITER=ITER+1
       IF (ITER.GT.IMAX) GO TO 45
       IF (ABS(MLEL-MLELT).GT..001*MLES) GO TO 40
       IF (ABS(MLES-MLEST).GT..05*MLES) GO TO 40
45     RETURN
       END
```

B.2 FORTRAN Code for Power Study of Sequential Tests

```
      COMMON X(10000),P1,NR1,RN,K1
       INTEGER NR1,CC,VV,ROW,COL
       PARAMETER (ROW=20,COL=20)
       REAL MEDIAN,SEQ(1:ROW,1:COL)
       REAL MLEL,MLES,XX(50000),Y(50000)
       REAL R(10000),DISA(50000),DISB(50000),C(50000),
     1  D(50000),V(50000),CV(50000)
       DOUBLE PRECISION DSEED1,DSEED2,U(10000),UC(10000)
       DSEED1=432157.0D0
       DSEED2=321457.0D0
      REP=50000
**************************************
******Sequential Test Power Program******
**************************************
      PRINT *,'**SEQUENTIAL TEST-CV(cols)REFLECTED and V(rows)**'
      PRINT *,'Power of sequential test with',REP,' replications'
      DO 1000 TYPE=1,6
       IF (TYPE.EQ.1) PRINT *,'***PWR CAUCHY***'
       IF (TYPE.EQ.2) PRINT *,'***PWR NORMAL***'
       IF (TYPE.EQ.3) PRINT *,'***PWR EXPONENTIAL***'
       IF (TYPE.EQ.4) PRINT *,'***PWR BETA(3,3)***'
       IF (TYPE.EQ.5) PRINT *,'***PWR GAMMA***'
       IF (TYPE.EQ.6) PRINT *,'***PWR WEIBULL***'
      DO 500 K1=5,50,5
      PRINT *,'****Sample Size N=',K1,'****'
      K2=K1*2
       MM=K1/2
      NR1=K1
      SIZE=NR1
      DO 1 DS=1,20
          DO 2 VS=1,20
            SEQ(VS,DS)=0
2       CONTINUE
1     CONTINUE
       CALL RNSET (DSEED1)
      DO 200 J=1,REP
*********************************************************
******Generate The Deviates From The Distributions******
*********************************************************
      IF(TYPE.EQ.1) GO TO 3
      IF(TYPE.EQ.2) GO TO 4
      IF(TYPE.EQ.3) GO TO 5
      IF(TYPE.EQ.4) GO TO 6
      IF(TYPE.EQ.5) GO TO 7
      IF(TYPE.EQ.6) GO TO 8
3      CALL RNCHY (NR1,R)
        GO TO 15
4      CALL RNNOR (NR1,R)
        GO TO 15
5      CALL RNEXP (NR1,R)
        GO TO 15
6      CALL RNBET (NR1,2.,3.,R)
        GO TO 15
7      CALL RNGAM (NR1,2.,R)
        GO TO 15
8      CALL RNWIB (NR1,3.5,R)
15      DO 10 I=1,NR1
           X(I)=R(I)*10.0+0.0
10     CONTINUE
******************************
******Order the Variates******
******************************
      NM=K1-1
      DO 30 I=1,NM
         JM=K1-I
         DO 20 K=1,JM
            IF(X(K).LT.X(K+1)) GO TO 20
                 TEMP=X(K)
                 X(K)=X(K+1)
                 X(K+1)=TEMP
20      CONTINUE
30     CONTINUE
```

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      IF (MOD(NR1,2).EQ.0) THEN
      XMED=(X(NN+1)+X(NN))/2.0
      ELSE
      XMED=X((NR1+1)/2)
      ENDIF
      MEDIAN=XMED
      SEMIQ=10.0
***********************************
******Estimate The Parameters******
***********************************
       CALL CMLE(MEDIAN,SEMIQ,MLEL,MLES)
       DO 32 I=1,K1
          Y(I)=X(I)-MLEL
32     CONTINUE
       DO 34 I=1,K1
           XX(I)=Y(I)+MLEL
           XX(I+K1)=-Y(I)+MLEL
34     CONTINUE
       NM2=K2-1
       DO 37 I=1,NM2
            JM2=K2-1
            DO 35 K=1,JM2
            IF(XX(K).LT.XX(K+1)) GO TO 35
              TEM=XX(K)
              XX(K)=XX(K+1)
              XX(K+1)=TEM
35     CONTINUE
37     CONTINUE
       DO 50 I=1,K1
          U(I)=.5+.31831*ATAN((X(I)-MLEL)/MLES)
50     CONTINUE
*********************************************************
       DISB(J)=(U(1))
       DISA(J)=(1/SIZE-U(1))
       DO 60 I=2,K1
       D1=(U(I)-(I-1)/SIZE)
       IF (D1.GT.DISB(J)) DISB(J)=D1
       D2=(I/SIZE)-U(I)
       IF (D2.GT.DISA(J)) DISA(J)=D2
60     CONTINUE
       IF (DISA(J).GT.DISB(J)) THEN
           D(J)=DISA(J)
       ELSE
           D(J)=DISB(J)
       ENDIF
       V(J)=DISA(J)+DISB(J)
      DO 55 I=1,K2
          UC(I)=.5+.31831*ATAN((XX(I)-MLEL)/MLES)
55     CONTINUE
       TEMP1=K2
       WS=0.
          DO 70 I=1,K2
       G2=I
          C(I)=(UC(I)-(2.*G2-1.)/(2.*TEMP1))**2
          WS=WS+C(I)
70     CONTINUE
          CV(J)=1./(12.0*TEMP1)+WS
*********************************************************
       IF (K1.EQ.5) GO TO 105
       IF (K1.EQ.10) GO TO 110
       IF (K1.EQ.15) GO TO 115
       IF (K1.EQ.20) GO TO 120
       IF (K1.EQ.25) GO TO 125
       IF (K1.EQ.30) GO TO 130
       IF (K1.EQ.35) GO TO 135
       IF (K1.EQ.40) GO TO 140
       IF (K1.EQ.45) GO TO 145
       IF (K1.EQ.50) GO TO 150
*** Critical value comparison for n=5***
105      IF (CV(J).LT.0.0702251) CC=1
         IF (CV(J).LT.0.0636702) CC=2
         IF (CV(J).LT.0.0606072) CC=3
         IF (CV(J).LT.0.0583631) CC=4
         IF (CV(J).LT.0.0565944) CC=5
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            IF (CV(J).LT.0.0549783) CC=6
            IF (CV(J).LT.0.0537795) CC=7
            IF (CV(J).LT.0.0526234) CC=8
            IF (CV(J).LT.0.0515826) CC=9
            IF (CV(J).LT.0.0506471) CC=10
            IF (CV(J).LT.0.0497845) CC=11
            IF (CV(J).LT.0.0488882) CC=12
            IF (CV(J).LT.0.0481278) CC=13
            IF (CV(J).LT.0.0473964) CC=14
            IF (CV(J).LT.0.0466730) CC=15
            IF (CV(J).LT.0.0460226) CC=16
            IF (CV(J).LT.0.0453367) CC=17
            IF (CV(J).LT.0.0446567) CC=18
            IF (CV(J).LT.0.0439843) CC=19
            IF (CV(J).LT.0.0433629) CC=20
                  IF (V(J).LT.0.406213) VV=1
                  IF (V(J).LT.0.401048) VV=2
                  IF (V(J).LT.0.399306) VV=3
                  IF (V(J).LT.0.398356) VV=4
                  IF (V(J).LT.0.397407) VV=5
                  IF (V(J).LT.0.396364) VV=6
                  IF (V(J).LT.0.395401) VV=7
                  IF (V(J).LT.0.394481) VV=8
                  IF (V(J).LT.0.393514) VV=9
                  IF (V(J).LT.0.392542) VV=10
                  IF (V(J).LT.0.391471) VV=11
                  IF (V(J).LT.0.390410) VV=12
                  IF (V(J).LT.0.389397) VV=13
                  IF (V(J).LT.0.388354) VV=14
                  IF (V(J).LT.0.387390) VV=15
                  IF (V(J).LT.0.386293) VV=16
                  IF (V(J).LT.0.385183) VV=17
                  IF (V(J).LT.0.384115) VV=18
                  IF (V(J).LT.0.383058) VV=19
                  IF (V(J).LT.0.381950) VV=20
            GO TO 100
*** Critical value comparison for n=10***
110         IF (CV(J).LT.0.102571) CC=1
            IF (CV(J).LT.0.0889877) CC=2
            IF (CV(J).LT.0.0807142) CC=3
            IF (CV(J).LT.0.0750680) CC=4
            IF (CV(J).LT.0.0708767) CC=5
            IF (CV(J).LT.0.0673681) CC=6
            IF (CV(J).LT.0.0645554) CC=7
            IF (CV(J).LT.0.0618520) CC=8
            IF (CV(J).LT.0.0596310) CC=9
            IF (CV(J).LT.0.0574351) CC=10
            IF (CV(J).LT.0.0554554) CC=11
            IF (CV(J).LT.0.0538364) CC=12
            IF (CV(J).LT.0.0522987) CC=13
            IF (CV(J).LT.0.0508808) CC=14
            IF (CV(J).LT.0.0495772) CC=15
            IF (CV(J).LT.0.0484588) CC=16
            IF (CV(J).LT.0.0472593) CC=17
            IF (CV(J).LT.0.0462153) CC=18
            IF (CV(J).LT.0.0453215) CC=19
            IF (CV(J).LT.0.0443938) CC=20
                  IF (V(J).LT.0.362358) VV=1
                  IF (V(J).LT.0.350301) VV=2
                  IF (V(J).LT.0.342236) VV=3
                  IF (V(J).LT.0.335947) VV=4
                  IF (V(J).LT.0.330308) VV=5
                  IF (V(J).LT.0.325581) VV=6
                  IF (V(J).LT.0.321081) VV=7
                  IF (V(J).LT.0.317228) VV=8
                  IF (V(J).LT.0.313804) VV=9
                  IF (V(J).LT.0.310818) VV=10
                  IF (V(J).LT.0.307851) VV=11
                  IF (V(J).LT.0.305186) VV=12
                  IF (V(J).LT.0.302568) VV=13
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                IF (V(J).LT.0.300115) VV=14
                IF (V(J).LT.0.297784) VV=15
                IF (V(J).LT.0.295750) VV=16
                IF (V(J).LT.0.293806) VV=17
                IF (V(J).LT.0.291948) VV=18
                IF (V(J).LT.0.290337) VV=19
                IF (V(J).LT.0.288634) VV=20
          GO TO 100
*** Critical value comparison for n=15***
115       IF (CV(J).LT.0.103407) CC=1
          IF (CV(J).LT.0.0894693) CC=2
          IF (CV(J).LT.0.0811374) CC=3
          IF (CV(J).LT.0.0751600) CC=4
          IF (CV(J).LT.0.0712666) CC=5
          IF (CV(J).LT.0.0675678) CC=6
          IF (CV(J).LT.0.0647024) CC=7
          IF (CV(J).LT.0.0620672) CC=8
          IF (CV(J).LT.0.0597673) CC=9
          IF (CV(J).LT.0.0575473) CC=10
          IF (CV(J).LT.0.0556146) CC=11
          IF (CV(J).LT.0.0539358) CC=12
          IF (CV(J).LT.0.0523847) CC=13
          IF (CV(J).LT.0.0509995) CC=14
          IF (CV(J).LT.0.0497925) CC=15
          IF (CV(J).LT.0.0486072) CC=16
          IF (CV(J).LT.0.0473903) CC=17
          IF (CV(J).LT.0.0464050) CC=18
          IF (CV(J).LT.0.0453916) CC=19
          IF (CV(J).LT.0.0444772) CC=20
                IF (V(J).LT.0.308774) VV=1
                IF (V(J).LT.0.297009) VV=2
                IF (V(J).LT.0.288803) VV=3
                IF (V(J).LT.0.282916) VV=4
                IF (V(J).LT.0.278230) VV=5
                IF (V(J).LT.0.274196) VV=6
                IF (V(J).LT.0.270512) VV=7
                IF (V(J).LT.0.267593) VV=8
                IF (V(J).LT.0.264757) VV=9
                IF (V(J).LT.0.261920) VV=10
                IF (V(J).LT.0.259468) VV=11
                IF (V(J).LT.0.257261) VV=12
                IF (V(J).LT.0.255208) VV=13
                IF (V(J).LT.0.253388) VV=14
                IF (V(J).LT.0.251576) VV=15
                IF (V(J).LT.0.249770) VV=16
                IF (V(J).LT.0.248089) VV=17
                IF (V(J).LT.0.246536) VV=18
                IF (V(J).LT.0.245045) VV=19
                IF (V(J).LT.0.243568) VV=20
          GO TO 100
*** Critical value comparison for n=20***
120       IF (CV(J).LT.0.104592) CC=1
          IF (CV(J).LT.0.0901711) CC=2
          IF (CV(J).LT.0.0817736) CC=3
          IF (CV(J).LT.0.0755807) CC=4
          IF (CV(J).LT.0.0713287) CC=5
          IF (CV(J).LT.0.0677571) CC=6
          IF (CV(J).LT.0.0648515) CC=7
          IF (CV(J).LT.0.0621579) CC=8
          IF (CV(J).LT.0.0599599) CC=9
          IF (CV(J).LT.0.0576146) CC=10
          IF (CV(J).LT.0.0558291) CC=11
          IF (CV(J).LT.0.0539403) CC=12
          IF (CV(J).LT.0.0524849) CC=13
          IF (CV(J).LT.0.0510762) CC=14
          IF (CV(J).LT.0.0497996) CC=15
          IF (CV(J).LT.0.0485610) CC=16
          IF (CV(J).LT.0.0474320) CC=17
          IF (CV(J).LT.0.0464067) CC=18
          IF (CV(J).LT.0.0454521) CC=19
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          IF (CV(J).LT.0.0444864) CC=20
                IF (V(J).LT.0.272266) VV=1
                IF (V(J).LT.0.261501) VV=2
                IF (V(J).LT.0.254443) VV=3
                IF (V(J).LT.0.249244) VV=4
                IF (V(J).LT.0.244890) VV=5
                IF (V(J).LT.0.241337) VV=6
                IF (V(J).LT.0.238144) VV=7
                IF (V(J).LT.0.235413) VV=8
                IF (V(J).LT.0.233092) VV=9
                IF (V(J).LT.0.230918) VV=10
                IF (V(J).LT.0.228931) VV=11
                IF (V(J).LT.0.226946) VV=12
                IF (V(J).LT.0.225199) VV=13
                IF (V(J).LT.0.223500) VV=14
                IF (V(J).LT.0.221941) VV=15
                IF (V(J).LT.0.220377) VV=16
                IF (V(J).LT.0.218890) VV=17
                IF (V(J).LT.0.217570) VV=18
                IF (V(J).LT.0.216145) VV=19
                IF (V(J).LT.0.214768) VV=20
          GO TO 100
*** Critical value comparison for n=25***
125       IF (CV(J).LT.0.103467) CC=1
          IF (CV(J).LT.0.0900418) CC=2
          IF (CV(J).LT.0.0819794) CC=3
          IF (CV(J).LT.0.0756484) CC=4
          IF (CV(J).LT.0.0708376) CC=5
          IF (CV(J).LT.0.0670560) CC=6
          IF (CV(J).LT.0.0641413) CC=7
          IF (CV(J).LT.0.0616871) CC=8
          IF (CV(J).LT.0.0593789) CC=9
          IF (CV(J).LT.0.0573742) CC=10
          IF (CV(J).LT.0.0554607) CC=11
          IF (CV(J).LT.0.0537461) CC=12
          IF (CV(J).LT.0.0522500) CC=13
          IF (CV(J).LT.0.0509438) CC=14
          IF (CV(J).LT.0.0497395) CC=15
          IF (CV(J).LT.0.0485138) CC=16
          IF (CV(J).LT.0.0474082) CC=17
          IF (CV(J).LT.0.0463045) CC=18
          IF (CV(J).LT.0.0452727) CC=19
          IF (CV(J).LT.0.0443559) CC=20
                IF (V(J).LT.0.246377) VV=1
                IF (V(J).LT.0.236634) VV=2
                IF (V(J).LT.0.230419) VV=3
                IF (V(J).LT.0.225317) VV=4
                IF (V(J).LT.0.221437) VV=5
                IF (V(J).LT.0.218211) VV=6
                IF (V(J).LT.0.215616) VV=7
                IF (V(J).LT.0.213088) VV=8
                IF (V(J).LT.0.210855) VV=9
                IF (V(J).LT.0.208693) VV=10
                IF (V(J).LT.0.206684) VV=11
                IF (V(J).LT.0.204962) VV=12
                IF (V(J).LT.0.203246) VV=13
                IF (V(J).LT.0.201698) VV=14
                IF (V(J).LT.0.200177) VV=15
                IF (V(J).LT.0.198669) VV=16
                IF (V(J).LT.0.197300) VV=17
                IF (V(J).LT.0.196057) VV=18
                IF (V(J).LT.0.194778) VV=19
                IF (V(J).LT.0.193583) VV=20
          GO TO 100
*** Critical value comparison for n=30***
130       IF (CV(J).LT.0.104427) CC=1
          IF (CV(J).LT.0.0897240) CC=2
          IF (CV(J).LT.0.0817723) CC=3
          IF (CV(J).LT.0.0761843) CC=4
          IF (CV(J).LT.0.0716247) CC=5
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            IF (CV(J).LT.0.0681322) CC=6
            IF (CV(J).LT.0.0651339) CC=7
            IF (CV(J).LT.0.0622602) CC=8
            IF (CV(J).LT.0.0598624) CC=9
            IF (CV(J).LT.0.0577336) CC=10
            IF (CV(J).LT.0.0560750) CC=11
            IF (CV(J).LT.0.0544200) CC=12
            IF (CV(J).LT.0.0527372) CC=13
            IF (CV(J).LT.0.0512857) CC=14
            IF (CV(J).LT.0.0499301) CC=15
            IF (CV(J).LT.0.0487133) CC=16
            IF (CV(J).LT.0.0475791) CC=17
            IF (CV(J).LT.0.0465353) CC=18
            IF (CV(J).LT.0.0455388) CC=19
            IF (CV(J).LT.0.0445131) CC=20
                 IF (V(J).LT.0.227202) VV=1
                 IF (V(J).LT.0.217478) VV=2
                 IF (V(J).LT.0.211992) VV=3
                 IF (V(J).LT.0.207429) VV=4
                 IF (V(J).LT.0.203890) VV=5
                 IF (V(J).LT.0.201014) VV=6
                 IF (V(J).LT.0.198412) VV=7
                 IF (V(J).LT.0.196181) VV=8
                 IF (V(J).LT.0.194252) VV=9
                 IF (V(J).LT.0.192283) VV=10
                 IF (V(J).LT.0.190582) VV=11
                 IF (V(J).LT.0.188937) VV=12
                 IF (V(J).LT.0.187467) VV=13
                 IF (V(J).LT.0.185989) VV=14
                 IF (V(J).LT.0.184601) VV=15
                 IF (V(J).LT.0.183225) VV=16
                 IF (V(J).LT.0.181969) VV=17
                 IF (V(J).LT.0.180705) VV=18
                 IF (V(J).LT.0.179487) VV=19
                 IF (V(J).LT.0.178265) VV=20
            GO TO 100
*** Critical value comparison for n=35***
135         IF (CV(J).LT.0.105836) CC=1
            IF (CV(J).LT.0.0905324) CC=2
            IF (CV(J).LT.0.0821766) CC=3
            IF (CV(J).LT.0.0767425) CC=4
            IF (CV(J).LT.0.0724047) CC=5
            IF (CV(J).LT.0.0688610) CC=6
            IF (CV(J).LT.0.0657529) CC=7
            IF (CV(J).LT.0.0631797) CC=8
            IF (CV(J).LT.0.0606181) CC=9
            IF (CV(J).LT.0.0584623) CC=10
            IF (CV(J).LT.0.0564873) CC=11
            IF (CV(J).LT.0.0548954) CC=12
            IF (CV(J).LT.0.0532711) CC=13
            IF (CV(J).LT.0.0517999) CC=14
            IF (CV(J).LT.0.0503279) CC=15
            IF (CV(J).LT.0.0490880) CC=16
            IF (CV(J).LT.0.0479270) CC=17
            IF (CV(J).LT.0.0468051) CC=18
            IF (CV(J).LT.0.0457812) CC=19
            IF (CV(J).LT.0.0447858) CC=20
                 IF (V(J).LT.0.212538) VV=1
                 IF (V(J).LT.0.203578) VV=2
                 IF (V(J).LT.0.197711) VV=3
                 IF (V(J).LT.0.193327) VV=4
                 IF (V(J).LT.0.189974) VV=5
                 IF (V(J).LT.0.187059) VV=6
                 IF (V(J).LT.0.184746) VV=7
                 IF (V(J).LT.0.182545) VV=8
                 IF (V(J).LT.0.180675) VV=9
                 IF (V(J).LT.0.179019) VV=10
                 IF (V(J).LT.0.177468) VV=11
                 IF (V(J).LT.0.175884) VV=12
                 IF (V(J).LT.0.174378) VV=13
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              IF (V(J).LT.0.172864) VV=14
              IF (V(J).LT.0.171636) VV=15
              IF (V(J).LT.0.170427) VV=16
              IF (V(J).LT.0.169177) VV=17
              IF (V(J).LT.0.168085) VV=18
              IF (V(J).LT.0.167000) VV=19
              IF (V(J).LT.0.165903) VV=20
         GO TO 100
*** Critical value comparison for n=40***
140      IF (CV(J).LT.0.107902) CC=1
         IF (CV(J).LT.0.0916252) CC=2
         IF (CV(J).LT.0.0826143) CC=3
         IF (CV(J).LT.0.0764809) CC=4
         IF (CV(J).LT.0.0720353) CC=5
         IF (CV(J).LT.0.0681814) CC=6
         IF (CV(J).LT.0.0651440) CC=7
         IF (CV(J).LT.0.0625519) CC=8
         IF (CV(J).LT.0.0601270) CC=9
         IF (CV(J).LT.0.0579023) CC=10
         IF (CV(J).LT.0.0561539) CC=11
         IF (CV(J).LT.0.0544816) CC=12
         IF (CV(J).LT.0.0528670) CC=13
         IF (CV(J).LT.0.0514270) CC=14
         IF (CV(J).LT.0.0500654) CC=15
         IF (CV(J).LT.0.0489102) CC=16
         IF (CV(J).LT.0.0477282) CC=17
         IF (CV(J).LT.0.0466480) CC=18
         IF (CV(J).LT.0.0456274) CC=19
         IF (CV(J).LT.0.0446692) CC=20
              IF (V(J).LT.0.199685) VV=1
              IF (V(J).LT.0.191145) VV=2
              IF (V(J).LT.0.185943) VV=3
              IF (V(J).LT.0.181868) VV=4
              IF (V(J).LT.0.178778) VV=5
              IF (V(J).LT.0.176310) VV=6
              IF (V(J).LT.0.173819) VV=7
              IF (V(J).LT.0.171645) VV=8
              IF (V(J).LT.0.169764) VV=9
              IF (V(J).LT.0.168041) VV=10
              IF (V(J).LT.0.166354) VV=11
              IF (V(J).LT.0.165000) VV=12
              IF (V(J).LT.0.163594) VV=13
              IF (V(J).LT.0.162283) VV=14
              IF (V(J).LT.0.161187) VV=15
              IF (V(J).LT.0.160025) VV=16
              IF (V(J).LT.0.158961) VV=17
              IF (V(J).LT.0.157959) VV=18
              IF (V(J).LT.0.156938) VV=19
              IF (V(J).LT.0.155927) VV=20
         GO TO 100
*** Critical value comparison for n=45***
145      IF (CV(J).LT.0.105865) CC=1
         IF (CV(J).LT.0.0911075) CC=2
         IF (CV(J).LT.0.0827659) CC=3
         IF (CV(J).LT.0.0766944) CC=4
         IF (CV(J).LT.0.0722290) CC=5
         IF (CV(J).LT.0.0686602) CC=6
         IF (CV(J).LT.0.0653492) CC=7
         IF (CV(J).LT.0.0625932) CC=8
         IF (CV(J).LT.0.0603086) CC=9
         IF (CV(J).LT.0.0582345) CC=10
         IF (CV(J).LT.0.0563547) CC=11
         IF (CV(J).LT.0.0548031) CC=12
         IF (CV(J).LT.0.0532327) CC=13
         IF (CV(J).LT.0.0518060) CC=14
         IF (CV(J).LT.0.0504691) CC=15
         IF (CV(J).LT.0.0491818) CC=16
         IF (CV(J).LT.0.0480311) CC=17
         IF (CV(J).LT.0.0469305) CC=18
         IF (CV(J).LT.0.0458531) CC=19
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          IF (CV(J).LT.0.0448784) CC=20
                IF (V(J).LT.0.189803) VV=1
                IF (V(J).LT.0.181228) VV=2
                IF (V(J).LT.0.176167) VV=3
                IF (V(J).LT.0.172471) VV=4
                IF (V(J).LT.0.169454) VV=5
                IF (V(J).LT.0.166867) VV=6
                IF (V(J).LT.0.164517) VV=7
                IF (V(J).LT.0.162604) VV=8
                IF (V(J).LT.0.160797) VV=9
                IF (V(J).LT.0.159004) VV=10
                IF (V(J).LT.0.157581) VV=11
                IF (V(J).LT.0.156273) VV=12
                IF (V(J).LT.0.154957) VV=13
                IF (V(J).LT.0.153699) VV=14
                IF (V(J).LT.0.152553) VV=15
                IF (V(J).LT.0.151480) VV=16
                IF (V(J).LT.0.150426) VV=17
                IF (V(J).LT.0.149477) VV=18
                IF (V(J).LT.0.148526) VV=19
                IF (V(J).LT.0.147584) VV=20
          GO TO 100
*** Critical value comparison for n=50***
150       IF (CV(J).LT.0.106204) CC=1
          IF (CV(J).LT.0.0917008) CC=2
          IF (CV(J).LT.0.0831598) CC=3
          IF (CV(J).LT.0.0772085) CC=4
          IF (CV(J).LT.0.0724221) CC=5
          IF (CV(J).LT.0.0685840) CC=6
          IF (CV(J).LT.0.0653125) CC=7
          IF (CV(J).LT.0.0627239) CC=8
          IF (CV(J).LT.0.0602157) CC=9
          IF (CV(J).LT.0.0582263) CC=10
          IF (CV(J).LT.0.0561779) CC=11
          IF (CV(J).LT.0.0545328) CC=12
          IF (CV(J).LT.0.0529905) CC=13
          IF (CV(J).LT.0.0516243) CC=14
          IF (CV(J).LT.0.0503497) CC=15
          IF (CV(J).LT.0.0491688) CC=16
          IF (CV(J).LT.0.0479594) CC=17
          IF (CV(J).LT.0.0468486) CC=18
          IF (CV(J).LT.0.0457963) CC=19
          IF (CV(J).LT.0.0448157) CC=20
                IF (V(J).LT.0.179543) VV=1
                IF (V(J).LT.0.171780) VV=2
                IF (V(J).LT.0.167313) VV=3
                IF (V(J).LT.0.163940) VV=4
                IF (V(J).LT.0.160997) VV=5
                IF (V(J).LT.0.158580) VV=6
                IF (V(J).LT.0.156534) VV=7
                IF (V(J).LT.0.154742) VV=8
                IF (V(J).LT.0.153066) VV=9
                IF (V(J).LT.0.151704) VV=10
                IF (V(J).LT.0.150167) VV=11
                IF (V(J).LT.0.148859) VV=12
                IF (V(J).LT.0.147677) VV=13
                IF (V(J).LT.0.146550) VV=14
                IF (V(J).LT.0.145487) VV=15
                IF (V(J).LT.0.144456) VV=16
                IF (V(J).LT.0.143460) VV=17
                IF (V(J).LT.0.142501) VV=18
                IF (V(J).LT.0.141550) VV=19
                IF (V(J).LT.0.140647) VV=20
          GO TO 100
100       DO 101 DS=1,CC
            DO 102 VS=1,VV
              SEQ(VS,DS)=SEQ(VS,DS)+1
102         CONTINUE
101       CONTINUE
200     CONTINUE
          DO 201 DS=1,20
```

```
          DO 202 VS=1,20
            SEQ(VS,DS)=1-(SEQ(VS,DS)/REP)
202       CONTINUE
201     CONTINUE
        PRINT 400,((SEQ(RO,CO), CO=1,COL),RO=1,ROW)
400 FORMAT(5(2X,20F6.5/))
500   CONTINUE
1000  CONTINUE
       STOP
       END

      SUBROUTINE CMLE(MEDIAN,SEMIQ,MLEL,MLES)
      COMMON X(10000),P1,NR1,RN,K1
      REAL MLEL,MLES,MEDIAN,MLELT,MLEST,MLESSQ
      MLEL=MEDIAN
      MLES=SEMIQ
      IMAX=100
      ITER=0
40    MLELT=MLEL
      MLEST=MLES
      SUM0=0
      SUM1=0
      MLESSQ=MLES**2
      DO 41 I=1,K1
      Z=MLESSQ+(X(I)-MLEL)**2
      SUM0=SUM0+1./Z
      SUM1=SUM1+X(I)/Z
41    CONTINUE
      TMLES=DFLOAT(K1)/2.D0/SUM0/MLES**(1.5)
      MLES=TMLES**2
      MLEL=SUM1/SUM0
      ITER=ITER+1
      IF (ITER.GT.IMAX) GO TO 45
      IF (ABS(MLEL-MLELT).GT..001*MLES) GO TO 40
      IF (ABS(MLES-MLEST).GT..05*MLES) GO TO 40
45    RETURN
      END
```

Appendix C. Probability Points

C.1 Probability Points of KS and V Tests

Probaility Points for $n = 5$

$1 - \alpha$	KS	V
0.01	0.131258	0.219746
0.02	0.139334	0.228871
0.03	0.145202	0.235426
0.04	0.149780	0.240536
0.05	0.153955	0.245253
0.06	0.157101	0.249857
0.07	0.160080	0.253968
0.08	0.162729	0.257818
0.09	0.165119	0.261409
0.10	0.167560	0.264653
0.11	0.169913	0.267621
0.12	0.171845	0.270536
0.13	0.173765	0.273472
0.14	0.175746	0.276232
0.15	0.177659	0.278961
0.16	0.179336	0.281769
0.17	0.180998	0.284370
0.18	0.182597	0.286931
0.19	0.184085	0.289290
0.20	0.185500	0.291694
0.21	0.186829	0.293884
0.22	0.188266	0.296097
0.23	0.189502	0.298263
0.24	0.190752	0.300485
0.25	0.191941	0.302479
0.26	0.192964	0.304455
0.27	0.194042	0.306452
0.28	0.195115	0.308382
0.29	0.196251	0.310343
0.30	0.197286	0.312116
0.31	0.198334	0.313964
0.32	0.199330	0.315751
0.33	0.200442	0.317701
0.34	0.201811	0.319482
0.35	0.203231	0.321260
0.36	0.204705	0.323066
0.37	0.206120	0.324831
0.38	0.207608	0.326584
0.39	0.209048	0.328188
0.40	0.210432	0.329807
0.41	0.211858	0.331349
0.42	0.213284	0.332911
0.43	0.214613	0.334420
0.44	0.216163	0.335921
0.45	0.217613	0.337328
0.46	0.219034	0.338830
0.47	0.220569	0.340310
0.48	0.222238	0.341788
0.49	0.223815	0.343079
0.50	0.225280	0.344545

Probaility Points for $n = 5$

$1 - \alpha$	KS	V
0.51	0.226880	0.345982
0.52	0.228484	0.347432
0.53	0.230200	0.348925
0.54	0.231789	0.350377
0.55	0.233599	0.351862
0.56	0.235400	0.353186
0.57	0.237140	0.354526
0.58	0.239014	0.355822
0.59	0.240842	0.357226
0.60	0.242494	0.358540
0.61	0.244394	0.359767
0.62	0.246292	0.361088
0.63	0.248193	0.362352
0.64	0.250066	0.363592
0.65	0.252039	0.364884
0.66	0.253883	0.366096
0.67	0.255853	0.367311
0.68	0.257967	0.368531
0.69	0.260011	0.369763
0.70	0.262245	0.370931
0.71	0.264563	0.372143
0.72	0.267213	0.373261
0.73	0.269627	0.374388
0.74	0.271871	0.375492
0.75	0.274437	0.376586
0.76	0.276935	0.377667
0.77	0.279391	0.378738
0.78	0.282180	0.379882
0.79	0.284747	0.380883
0.80	0.287831	0.381950
0.81	0.290779	0.383058
0.82	0.293855	0.384115
0.83	0.296831	0.385183
0.84	0.300244	0.386293
0.85	0.303510	0.387390
0.86	0.307330	0.388354
0.87	0.310907	0.389397
0.88	0.314618	0.390410
0.89	0.318941	0.391471
0.90	0.323392	0.392542
0.91	0.328241	0.393514
0.92	0.332890	0.394481
0.93	0.337933	0.395401
0.94	0.343422	0.396364
0.95	0.348933	0.397407
0.96	0.355043	0.398356
0.97	0.361987	0.399306
0.98	0.369788	0.401048
0.99	0.380567	0.406213

Probaility Points for $n = 10$

$1-\alpha$	KS	V
0.01	9.90855E-02	0.172397
0.02	1.04118E-01	0.180034
0.03	0.107544	0.185080
0.04	0.110539	0.188812
0.05	0.113163	0.191556
0.06	0.115440	0.193817
0.07	0.117464	0.195978
0.08	0.119378	0.197777
0.09	0.121078	0.199398
0.10	0.122751	0.201183
0.11	0.124280	0.203072
0.12	0.125844	0.204866
0.13	0.127374	0.206531
0.14	0.128793	0.208250
0.15	0.130253	0.209785
0.16	0.131489	0.211217
0.17	0.132725	0.212562
0.18	0.133873	0.214107
0.19	0.135091	0.215601
0.20	0.136331	0.216912
0.21	0.137493	0.218214
0.22	0.138624	0.219599
0.23	0.139726	0.220894
0.24	0.140870	0.222114
0.25	0.141983	0.223325
0.26	0.142980	0.224579
0.27	0.144030	0.225902
0.28	0.145041	0.227112
0.29	0.146116	0.228281
0.30	0.147191	0.229550
0.31	0.148213	0.230768
0.32	0.149288	0.231987
0.33	0.150298	0.233119
0.34	0.151233	0.234283
0.35	0.152234	0.235378
0.36	0.153330	0.236628
0.37	0.154399	0.237764
0.38	0.155414	0.238917
0.39	0.156451	0.240105
0.40	0.157465	0.241244
0.41	0.158480	0.242351
0.42	0.159559	0.243489
0.43	0.160629	0.244592
0.44	0.161731	0.245667
0.45	0.162682	0.246781
0.46	0.163703	0.247812
0.47	0.164807	0.248950
0.48	0.165973	0.250054
0.49	0.167117	0.251149
0.50	0.168219	0.252267

Probaility Points for $n = 10$

$1-\alpha$	KS	V
0.51	0.169280	0.253324
0.52	0.170382	0.254338
0.53	0.171533	0.255568
0.54	0.172612	0.256707
0.55	0.173727	0.257809
0.56	0.174921	0.258927
0.57	0.176093	0.260025
0.58	0.177195	0.261070
0.59	0.178353	0.262109
0.60	0.179603	0.263265
0.61	0.180849	0.264411
0.62	0.182034	0.265506
0.63	0.183354	0.266593
0.64	0.184522	0.267674
0.65	0.185708	0.268827
0.66	0.186976	0.270039
0.67	0.188303	0.271227
0.68	0.189664	0.272498
0.69	0.191043	0.273674
0.70	0.192515	0.274862
0.71	0.193950	0.276114
0.72	0.195367	0.277513
0.73	0.196935	0.278940
0.74	0.198599	0.280253
0.75	0.200215	0.281441
0.76	0.201988	0.282790
0.77	0.203919	0.284150
0.78	0.205817	0.285600
0.79	0.207610	0.287109
0.80	0.209504	0.288634
0.81	0.211597	0.290337
0.82	0.213831	0.291948
0.83	0.216093	0.293806
0.84	0.218305	0.295750
0.85	0.220736	0.297784
0.86	0.223445	0.300115
0.87	0.226272	0.302568
0.88	0.229364	0.305186
0.89	0.232655	0.307851
0.90	0.235709	0.310818
0.91	0.239227	0.313804
0.92	0.243206	0.317228
0.93	0.247566	0.321081
0.94	0.252206	0.325581
0.95	0.257959	0.330308
0.96	0.264046	0.335947
0.97	0.271974	0.342236
0.98	0.283081	0.350301
0.99	0.300736	0.362358

Probaility Points for $n = 15$

$1-\alpha$	KS	V
0.01	8.26336E-02	0.142284
0.02	8.72121E-02	0.148915
0.03	9.03487E-02	0.153283
0.04	9.27511E-02	0.156650
0.05	9.49854E-02	0.159520
0.06	9.67763E-02	0.161977
0.07	9.84583E-02	0.164065
0.08	1.00162E-01	0.166173
0.09	1.01578E-01	0.168014
0.10	1.02929E-01	0.169739
0.11	1.04190E-01	0.171282
0.12	0.105320	0.172653
0.13	0.106458	0.174014
0.14	0.107568	0.175167
0.15	0.108671	0.176441
0.16	0.109688	0.177637
0.17	0.110672	0.178809
0.18	0.111655	0.180007
0.19	0.112597	0.181099
0.20	0.113536	0.182305
0.21	0.114440	0.183366
0.22	0.115359	0.184371
0.23	0.116243	0.185444
0.24	0.117103	0.186429
0.25	0.117938	0.187383
0.26	0.118854	0.188425
0.27	0.119700	0.189396
0.28	0.120586	0.190367
0.29	0.121434	0.191280
0.30	0.122297	0.192188
0.31	0.123141	0.193212
0.32	0.124008	0.194146
0.33	0.124961	0.195090
0.34	0.125816	0.195995
0.35	0.126715	0.196887
0.36	0.127611	0.197802
0.37	0.128442	0.198658
0.38	0.129277	0.199597
0.39	0.130111	0.200611
0.40	0.130942	0.201604
0.41	0.131808	0.202468
0.42	0.132730	0.203386
0.43	0.133610	0.204249
0.44	0.134520	0.205092
0.45	0.135412	0.206082
0.46	0.136332	0.207005
0.47	0.137214	0.207964
0.48	0.138072	0.208860
0.49	0.139003	0.209752
0.50	0.139933	0.210689

Probaility Points for $n = 15$

$1-\alpha$	KS	V
0.51	0.140826	0.211603
0.52	0.141782	0.212562
0.53	0.142738	0.213512
0.54	0.143686	0.214475
0.55	0.144620	0.215406
0.56	0.145634	0.216301
0.57	0.146646	0.217237
0.58	0.147586	0.218230
0.59	0.148606	0.219226
0.60	0.149656	0.220185
0.61	0.150752	0.221194
0.62	0.151812	0.222162
0.63	0.152878	0.223197
0.64	0.153878	0.224265
0.65	0.155016	0.225237
0.66	0.156155	0.226341
0.67	0.157295	0.227382
0.68	0.158438	0.228538
0.69	0.159633	0.229669
0.70	0.160833	0.230811
0.71	0.162049	0.231943
0.72	0.163238	0.233052
0.73	0.164642	0.234340
0.74	0.166091	0.235511
0.75	0.167595	0.236775
0.76	0.169075	0.238066
0.77	0.170563	0.239452
0.78	0.172090	0.240791
0.79	0.173666	0.242190
0.80	0.175249	0.243568
0.81	0.176964	0.245045
0.82	0.178587	0.246536
0.83	0.180414	0.248089
0.84	0.182287	0.249770
0.85	0.184310	0.251576
0.86	0.186550	0.253388
0.87	0.188895	0.255208
0.88	0.191257	0.257261
0.89	0.193836	0.259468
0.90	0.196782	0.261920
0.91	0.199756	0.264757
0.92	0.202805	0.267593
0.93	0.206223	0.270512
0.94	0.210458	0.274196
0.95	0.215367	0.278230
0.96	0.221104	0.282916
0.97	0.228320	0.288803
0.98	0.237608	0.297009
0.99	0.253469	0.308774

Probaility Points for $n = 20$

$1-\alpha$	KS	V
0.01	7.26587E-02	0.125831
0.02	7.65455E-02	0.131603
0.03	7.94903E-02	0.135184
0.04	8.16229E-02	0.137834
0.05	8.34731E-02	0.140194
0.06	8.49320E-02	0.142470
0.07	8.64508E-02	0.144112
0.08	8.77502E-02	0.145781
0.09	8.89622E-02	0.147260
0.10	9.01004E-02	0.148769
0.11	9.12055E-02	0.150147
0.12	9.22267E-02	0.151395
0.13	9.32229E-02	0.152704
0.14	9.42699E-02	0.153884
0.15	9.52554E-02	0.154911
0.16	9.61693E-02	0.156043
0.17	9.70955E-02	0.157105
0.18	9.79311E-02	0.158124
0.19	9.87281E-02	0.159162
0.20	9.96146E-02	0.160156
0.21	1.00421E-01	0.161185
0.22	1.01224E-01	0.162120
0.23	1.02012E-01	0.163030
0.24	1.02852E-01	0.163955
0.25	1.03611E-01	0.164853
0.26	1.04366E-01	0.165749
0.27	0.105171	0.166612
0.28	0.105953	0.167466
0.29	0.106736	0.168286
0.30	0.107515	0.169165
0.31	0.108296	0.170065
0.32	0.109030	0.170834
0.33	0.109801	0.171706
0.34	0.110582	0.172482
0.35	0.111350	0.173272
0.36	0.112100	0.174096
0.37	0.112864	0.174906
0.38	0.113608	0.175711
0.39	0.114352	0.176555
0.40	0.115122	0.177333
0.41	0.115888	0.178124
0.42	0.116647	0.178878
0.43	0.117438	0.179634
0.44	0.118149	0.180414
0.45	0.118957	0.181188
0.46	0.119683	0.181973
0.47	0.120472	0.182755
0.48	0.121230	0.183556
0.49	0.122051	0.184344
0.50	0.122842	0.185097

Probaility Points for $n = 20$

$1-\alpha$	KS	V
0.51	0.123633	0.185888
0.52	0.124448	0.186725
0.53	0.125215	0.187465
0.54	0.126021	0.188276
0.55	0.126813	0.189067
0.56	0.127684	0.189952
0.57	0.128524	0.190769
0.58	0.129388	0.191702
0.59	0.130291	0.192554
0.60	0.131197	0.193430
0.61	0.132102	0.194239
0.62	0.132904	0.195111
0.63	0.133857	0.196106
0.64	0.134787	0.196990
0.65	0.135663	0.197978
0.66	0.136609	0.198993
0.67	0.137530	0.199975
0.68	0.138500	0.200932
0.69	0.139547	0.202011
0.70	0.140583	0.203024
0.71	0.141682	0.203961
0.72	0.142842	0.205159
0.73	0.143912	0.206185
0.74	0.145054	0.207269
0.75	0.146279	0.208448
0.76	0.147469	0.209587
0.77	0.148798	0.210883
0.78	0.150125	0.212055
0.79	0.151524	0.213375
0.80	0.153013	0.214768
0.81	0.154428	0.216145
0.82	0.156060	0.217570
0.83	0.157675	0.218890
0.84	0.159245	0.220377
0.85	0.160981	0.221941
0.86	0.162722	0.223500
0.87	0.164778	0.225199
0.88	0.166992	0.226946
0.89	0.169235	0.228931
0.90	0.171635	0.230918
0.91	0.174303	0.233092
0.92	0.177140	0.235413
0.93	0.180481	0.238144
0.94	0.184171	0.241337
0.95	0.188666	0.244890
0.96	0.193599	0.249244
0.97	0.199741	0.254443
0.98	0.208350	0.261501
0.99	0.221813	0.272266

Probaility Points for $n = 25$

$1-\alpha$	KS	V
0.01	6.54155E-02	0.113863
0.02	6.92108E-02	0.118557
0.03	7.16106E-02	0.121947
0.04	7.35550E-02	0.124364
0.05	7.51278E-02	0.126492
0.06	7.65053E-02	0.128309
0.07	7.78224E-02	0.130033
0.08	7.90414E-02	0.131524
0.09	8.01455E-02	0.133001
0.10	8.12001E-02	0.134311
0.11	8.22564E-02	0.135581
0.12	8.32516E-02	0.136701
0.13	8.41384E-02	0.137868
0.14	8.50542E-02	0.139047
0.15	8.59246E-02	0.140114
0.16	8.67865E-02	0.141112
0.17	8.76746E-02	0.142142
0.18	8.84652E-02	0.143025
0.19	8.92311E-02	0.143929
0.20	8.99971E-02	0.144811
0.21	9.07196E-02	0.145670
0.22	9.14002E-02	0.146465
0.23	9.21211E-02	0.147273
0.24	9.28173E-02	0.148117
0.25	9.34526E-02	0.148949
0.26	9.41550E-02	0.149711
0.27	9.48452E-02	0.150562
0.28	9.55883E-02	0.151340
0.29	9.62486E-02	0.152143
0.30	9.69304E-02	0.152891
0.31	9.76858E-02	0.153641
0.32	9.83968E-02	0.154372
0.33	9.90582E-02	0.155084
0.34	9.96738E-02	0.155797
0.35	1.00364E-01	0.156486
0.36	1.01022E-01	0.157274
0.37	1.01641E-01	0.158047
0.38	1.02287E-01	0.158792
0.39	1.02961E-01	0.159587
0.40	1.03672E-01	0.160342
0.41	1.04315E-01	0.161032
0.42	0.104990	0.161818
0.43	0.105673	0.162491
0.44	0.106368	0.163223
0.45	0.107071	0.163878
0.46	0.107784	0.164590
0.47	0.108511	0.165291
0.48	0.109145	0.165949
0.49	0.109848	0.166636
0.50	0.110511	0.167418

Probaility Points for $n = 25$

$1-\alpha$	KS	V
0.51	0.111296	0.168094
0.52	0.112027	0.168844
0.53	0.112712	0.169668
0.54	0.113450	0.170480
0.55	0.114184	0.171219
0.56	0.114896	0.171971
0.57	0.115648	0.172709
0.58	0.116425	0.173485
0.59	0.117195	0.174257
0.60	0.117967	0.175086
0.61	0.118803	0.175851
0.62	0.119603	0.176669
0.63	0.120387	0.177484
0.64	0.121193	0.178344
0.65	0.122038	0.179228
0.66	0.122928	0.180064
0.67	0.123807	0.180898
0.68	0.124786	0.181769
0.69	0.125700	0.182646
0.70	0.126729	0.183499
0.71	0.127709	0.184356
0.72	0.128802	0.185274
0.73	0.129839	0.186215
0.74	0.130968	0.187172
0.75	0.132137	0.188148
0.76	0.133366	0.189128
0.77	0.134502	0.190165
0.78	0.135625	0.191233
0.79	0.136777	0.192384
0.80	0.138109	0.193583
0.81	0.139463	0.194778
0.82	0.140796	0.196057
0.83	0.142172	0.197300
0.84	0.143695	0.198669
0.85	0.145242	0.200177
0.86	0.147024	0.201698
0.87	0.148873	0.203246
0.88	0.150769	0.204962
0.89	0.152789	0.206684
0.90	0.154988	0.208693
0.91	0.157231	0.210855
0.92	0.159830	0.213088
0.93	0.162712	0.215616
0.94	0.165823	0.218211
0.95	0.169580	0.221437
0.96	0.174201	0.225317
0.97	0.179512	0.230419
0.98	0.187080	0.236634
0.99	0.198853	0.246377

Probaility Points for $n = 30$

PP	KS	V
0.01	5.98898E-02	1.04539E-01
0.02	6.33597E-02	0.108951
0.03	6.57452E-02	0.112089
0.04	6.75668E-02	0.114378
0.05	6.90566E-02	0.116372
0.06	7.03703E-02	0.118206
0.07	7.15771E-02	0.119741
0.08	7.26864E-02	0.121167
0.09	7.37899E-02	0.122600
0.10	7.47557E-02	0.123846
0.11	7.56919E-02	0.124944
0.12	7.65460E-02	0.126021
0.13	7.73906E-02	0.127011
0.14	7.82159E-02	0.127966
0.15	7.89423E-02	0.128848
0.16	7.97359E-02	0.129705
0.17	8.04539E-02	0.130607
0.18	8.11871E-02	0.131469
0.19	8.18545E-02	0.132296
0.20	8.25500E-02	0.133121
0.21	8.32643E-02	0.133918
0.22	8.39048E-02	0.134697
0.23	8.44973E-02	0.135482
0.24	8.51667E-02	0.136275
0.25	8.58047E-02	0.137033
0.26	8.64379E-02	0.137767
0.27	8.70637E-02	0.138469
0.28	8.76926E-02	0.139174
0.29	8.83553E-02	0.139914
0.30	8.89990E-02	0.140634
0.31	8.96067E-02	0.141[illegible]8
0.32	9.02641E-02	0.142077
0.33	9.08789E-02	0.142750
0.34	9.15084E-02	0.143457
0.35	9.21645E-02	0.144178
0.36	9.27651E-02	0.144825
0.37	9.33271E-02	0.145474
0.38	9.39590E-02	0.146114
0.39	9.45566E-02	0.146762
0.40	9.51207E-02	0.147454
0.41	9.57072E-02	0.148121
0.42	9.63354E-02	0.148764
0.43	9.69280E-02	0.149365
0.44	9.75519E-02	0.150026
0.45	9.82545E-02	0.150699
0.46	9.88904E-02	0.151392
0.47	9.94754E-02	0.152088
0.48	1.00138E-01	0.152819
0.49	1.00779E-01	0.153472
0.50	1.01427E-01	0.154154

Probaility Points for $n = 30$

PP	KS	V
0.51	1.02099E-01	0.154800
0.52	1.02762E-01	0.155496
0.53	1.03455E-01	0.156138
0.54	1.04144E-01	0.156893
0.55	1.04883E-01	0.157558
0.56	0.105629	0.158304
0.57	0.106343	0.159014
0.58	0.107072	0.159710
0.59	0.107747	0.160428
0.60	0.108480	0.161102
0.61	0.109191	0.161755
0.62	0.109869	0.162462
0.63	0.110690	0.163202
0.64	0.111443	0.163985
0.65	0.112178	0.164759
0.66	0.113013	0.165551
0.67	0.113819	0.166301
0.68	0.114604	0.167099
0.69	0.115461	0.167870
0.70	0.116373	0.168646
0.71	0.117269	0.169485
0.72	0.118156	0.170386
0.73	0.119162	0.171241
0.74	0.120146	0.172113
0.75	0.121078	0.173022
0.76	0.122093	0.174021
0.77	0.123256	0.175040
0.78	0.124290	0.176018
0.79	0.125440	0.177092
0.80	0.126582	0.178265
0.81	0.127830	0.179487
0.82	0.129141	0.180705
0.83	0.130474	0.181969
0.84	0.131736	0.183225
0.85	0.133113	0.184601
0.86	0.134623	0.185989
0.87	0.136302	0.187467
0.88	0.137943	0.188937
0.89	0.139843	0.190582
0.90	0.141785	0.192283
0.91	0.143938	0.194252
0.92	0.146359	0.196181
0.93	0.148830	0.198412
0.94	0.151834	0.201014
0.95	0.155299	0.203890
0.96	0.159264	0.207429
0.97	0.164330	0.211992
0.98	0.171452	0.217478
0.99	0.182721	0.227202

Probaility Points for $n = 35$

PP	KS	V
0.01	5.60293E-02	9.67101E-02
0.02	5.90279E-02	1.01372E-01
0.03	6.10212E-02	1.04289E-01
0.04	6.27879E-02	0.106496
0.05	6.42321E-02	0.108441
0.06	6.54433E-02	0.110006
0.07	6.65952E-02	0.111462
0.08	6.76462E-02	0.112722
0.09	6.85472E-02	0.113841
0.10	6.94419E-02	0.115013
0.11	7.02841E-02	0.116100
0.12	7.10550E-02	0.117117
0.13	7.18213E-02	0.118098
0.14	7.25672E-02	0.119058
0.15	7.33454E-02	0.119977
0.16	7.41084E-02	0.120806
0.17	7.48082E-02	0.121638
0.18	7.54978E-02	0.122428
0.19	7.61355E-02	0.123170
0.20	7.67538E-02	0.123915
0.21	7.74100E-02	0.124718
0.22	7.80465E-02	0.125434
0.23	7.86753E-02	0.126151
0.24	7.92712E-02	0.126851
0.25	7.99137E-02	0.127560
0.26	8.05476E-02	0.128237
0.27	8.11538E-02	0.128987
0.28	8.17297E-02	0.129686
0.29	8.23213E-02	0.130341
0.30	8.29115E-02	0.130948
0.31	8.34864E-02	0.131591
0.32	8.40603E-02	0.132261
0.33	8.46182E-02	0.132872
0.34	8.52048E-02	0.133504
0.35	8.57398E-02	0.134130
0.36	8.63135E-02	0.134761
0.37	8.68877E-02	0.135375
0.38	8.74875E-02	0.135994
0.39	8.80837E-02	0.136585
0.40	8.86789E-02	0.137132
0.41	8.92174E-02	0.137713
0.42	8.97451E-02	0.138329
0.43	9.03343E-02	0.138967
0.44	9.09159E-02	0.139592
0.45	9.14667E-02	0.140208
0.46	9.20167E-02	0.140861
0.47	9.26139E-02	0.141468
0.48	9.31614E-02	0.142079
0.49	9.37907E-02	0.142711
0.50	9.43696E-02	0.143399

Probaility Points for $n = 35$

PP	KS	V
0.51	9.49958E-02	0.144010
0.52	9.56031E-02	0.144613
0.53	9.62524E-02	0.145298
0.54	9.68633E-02	0.145947
0.55	9.75064E-02	0.146621
0.56	9.81579E-02	0.147214
0.57	9.88332E-02	0.147861
0.58	9.95164E-02	0.148495
0.59	1.00181E-01	0.149182
0.60	1.00864E-01	0.149866
0.61	1.01553E-01	0.150520
0.62	1.02274E-01	0.151227
0.63	1.02970E-01	0.151926
0.64	1.03660E-01	0.152626
0.65	1.04401E-01	0.153331
0.66	0.105119	0.154087
0.67	0.105854	0.154808
0.68	0.106644	0.155562
0.69	0.107393	0.156295
0.70	0.108184	0.157044
0.71	0.108997	0.157841
0.72	0.109864	0.158600
0.73	0.110653	0.159393
0.74	0.111483	0.160254
0.75	0.112328	0.161187
0.76	0.113278	0.162103
0.77	0.114226	0.162940
0.78	0.115242	0.163940
0.79	0.116331	0.164904
0.80	0.117512	0.165903
0.81	0.118646	0.167000
0.82	0.119784	0.168085
0.83	0.121011	0.169177
0.84	0.122321	0.170427
0.85	0.123711	0.171636
0.86	0.125227	0.172864
0.87	0.126688	0.174378
0.88	0.128181	0.175884
0.89	0.129886	0.177468
0.90	0.131807	0.179019
0.91	0.133732	0.180675
0.92	0.135962	0.182545
0.93	0.138287	0.184746
0.94	0.141216	0.187059
0.95	0.144396	0.189974
0.96	0.148172	0.193327
0.97	0.153135	0.197711
0.98	0.159752	0.203578
0.99	0.170239	0.212538

Probaility Points for $n = 40$

PP	KS	V
0.01	5.25975E-02	9.12015E-02
0.02	5.55133E-02	9.54467E-02
0.03	5.75125E-02	9.79650E-02
0.04	5.89907E-02	1.00075E-01
0.05	6.02205E-02	1.01799E-01
0.06	6.14191E-02	1.03325E-01
0.07	6.24025E-02	1.04745E-01
0.08	6.33921E-02	0.105945
0.09	6.42477E-02	0.107022
0.10	6.50727E-02	0.108044
0.11	6.58804E-02	0.109092
0.12	6.66858E-02	0.110063
0.13	6.73803E-02	0.110971
0.14	6.80568E-02	0.111815
0.15	6.87549E-02	0.112625
0.16	6.95051E-02	0.113379
0.17	7.01638E-02	0.114157
0.18	7.07355E-02	0.114878
0.19	7.13953E-02	0.115681
0.20	7.20335E-02	0.116430
0.21	7.26430E-02	0.117091
0.22	7.32455E-02	0.117801
0.23	7.38289E-02	0.118542
0.24	7.43842E-02	0.119254
0.25	7.49302E-02	0.119908
0.26	7.55036E-02	0.120594
0.27	7.60777E-02	0.121219
0.28	7.66115E-02	0.121771
0.29	7.71500E-02	0.122429
0.30	7.76896E-02	0.123032
0.31	7.82424E-02	0.123609
0.32	7.87783E-02	0.124233
0.33	7.93096E-02	0.124874
0.34	7.98395E-02	0.125442
0.35	8.03868E-02	0.125998
0.36	8.08821E-02	0.126592
0.37	8.14145E-02	0.127191
0.38	8.19397E-02	0.127785
0.39	8.24668E-02	0.128338
0.40	8.29776E-02	0.128910
0.41	8.34887E-02	0.129480
0.42	8.39979E-02	0.130038
0.43	8.45422E-02	0.130656
0.44	8.50811E-02	0.131229
0.45	8.56808E-02	0.131812
0.46	8.62126E-02	0.132419
0.47	8.68129E-02	0.133007
0.48	8.74338E-02	0.133579
0.49	8.79876E-02	0.134134
0.50	8.85765E-02	0.134709

Probaility Points for $n = 40$

PP	KS	V
0.51	8.91706E-02	0.135301
0.52	8.97426E-02	0.135880
0.53	9.03080E-02	0.136438
0.54	9.08828E-02	0.137057
0.55	9.15022E-02	0.137685
0.56	9.20619E-02	0.138302
0.57	9.26358E-02	0.138935
0.58	9.32774E-02	0.139540
0.59	9.38826E-02	0.140180
0.60	9.45161E-02	0.140824
0.61	9.51742E-02	0.141423
0.62	9.58291E-02	0.142071
0.63	9.64949E-02	0.142743
0.64	9.71694E-02	0.143398
0.65	9.78676E-02	0.144079
0.66	9.85487E-02	0.144780
0.67	9.92531E-02	0.145449
0.68	9.99626E-02	0.146160
0.69	1.00737E-01	0.146885
0.70	1.01509E-01	0.147628
0.71	1.02273E-01	0.148348
0.72	1.03032E-01	0.149073
0.73	1.03813E-01	0.149869
0.74	1.04636E-01	0.150697
0.75	0.105482	0.151463
0.76	0.106401	0.152339
0.77	0.107371	0.153200
0.78	0.108308	0.154097
0.79	0.109229	0.154992
0.80	0.110250	0.155927
0.81	0.111279	0.156938
0.82	0.112369	0.157959
0.83	0.113451	0.158961
0.84	0.114694	0.160025
0.85	0.116023	0.161187
0.86	0.117374	0.162283
0.87	0.118752	0.163594
0.88	0.120266	0.165000
0.89	0.121836	0.166354
0.90	0.123610	0.168041
0.91	0.125530	0.169764
0.92	0.127592	0.171645
0.93	0.129914	0.173819
0.94	0.132450	0.176310
0.95	0.135528	0.178778
0.96	0.138845	0.181868
0.97	0.143634	0.185943
0.98	0.149670	0.191145
0.99	0.159956	0.199685

Probaility Points for $n = 45$

PP	KS	V
0.01	4.99479E-02	8.65671E-02
0.02	5.27103E-02	9.03998E-02
0.03	5.44475E-02	9.29224E-02
0.04	5.58916E-02	9.48549E-02
0.05	5.71224E-02	9.64552E-02
0.06	5.82729E-02	9.78350E-02
0.07	5.92885E-02	9.92132E-02
0.08	6.02124E-02	1.00396E-01
0.09	6.10378E-02	1.01490E-01
0.10	6.17669E-02	1.02496E-01
0.11	6.25527E-02	1.03472E-01
0.12	6.32949E-02	1.04364E-01
0.13	6.39348E-02	0.105229
0.14	6.45891E-02	0.106033
0.15	6.52305E-02	0.106772
0.16	6.58386E-02	0.107549
0.17	6.64196E-02	0.108268
0.18	6.69961E-02	0.108968
0.19	6.75660E-02	0.109634
0.20	6.81304E-02	0.110296
0.21	6.86905E-02	0.110963
0.22	6.92223E-02	0.111577
0.23	6.97435E-02	0.112237
0.24	7.02934E-02	0.112874
0.25	7.08348E-02	0.113472
0.26	7.13578E-02	0.114103
0.27	7.19039E-02	0.114719
0.28	7.24684E-02	0.115285
0.29	7.29692E-02	0.115905
0.30	7.35109E-02	0.11[illegible]
0.31	7.40134E-02	0.[illegible]7062
0.32	7.44785E-02	0.[illegible]7801
0.33	7.49970E-02	0.118177
0.34	7.55035E-02	0.118756
0.35	7.60086E-02	0.119326
0.36	7.65294E-02	0.119864
0.37	7.70508E-02	0.120452
0.38	7.75581E-02	0.120982
0.39	7.80440E-02	0.121526
0.40	7.85635E-02	0.122086
0.41	7.91084E-02	0.122624
0.42	7.96384E-02	0.123166
0.43	8.01624E-02	0.123705
0.44	8.06723E-02	0.124232
0.45	8.11844E-02	0.124853
0.46	8.16813E-02	0.125424
0.47	8.22702E-02	0.125965
0.48	8.28186E-02	0.126496
0.49	8.33566E-02	0.127044
0.50	8.39210E-02	0.127601

Probaility Points for $n = 45$

PP	KS	V
0.51	8.45066E-02	0.128143
0.52	8.50767E-02	0.128700
0.53	8.56224E-02	0.129225
0.54	8.61459E-02	0.129751
0.55	8.66982E-02	0.130364
0.56	8.72518E-02	0.130933
0.57	8.78069E-02	0.131541
0.58	8.84495E-02	0.132128
0.59	8.90465E-02	0.132740
0.60	8.95751E-02	0.133334
0.61	9.01682E-02	0.133909
0.62	9.07766E-02	0.134554
0.63	9.13846E-02	0.135165
0.64	9.19936E-02	0.135793
0.65	9.26671E-02	0.136438
0.66	9.33378E-02	0.137109
0.67	9.40188E-02	0.137717
0.68	9.47005E-02	0.138367
0.69	9.53504E-02	0.139051
0.70	9.60178E-02	0.139742
0.71	9.68297E-02	0.140513
0.72	9.76257E-02	0.141178
0.73	9.84099E-02	0.141842
0.74	9.92224E-02	0.142591
0.75	1.00050E-01	0.143359
0.76	1.00918E-01	0.144133
0.77	1.01817E-01	0.145000
0.78	1.02749E-01	0.145846
0.79	1.03637E-01	0.146702
0.80	1.04548E-01	0.147584
0.81	0.105490	0.148526
0.82	0.106551	0.149477
0.83	0.107602	0.150426
0.84	0.108849	0.151480
0.85	0.110043	0.152553
0.86	0.111251	0.153699
0.87	0.112663	0.154957
0.88	0.113931	0.156273
0.89	0.115522	0.157581
0.90	0.117159	0.159004
0.91	0.119117	0.160797
0.92	0.121143	0.162604
0.93	0.123326	0.164517
0.94	0.125774	0.166867
0.95	0.128573	0.169454
0.96	0.131852	0.172471
0.97	0.135584	0.176167
0.98	0.141146	0.181228
0.99	0.151557	0.189803

Probaility Points for $n = 50$

PP	KS	V
0.01	4.73531E-02	8.23305E-02
0.02	4.98383E-02	8.60072E-02
0.03	5.16324E-02	8.83046E-02
0.04	5.30606E-02	9.01756E-02
0.05	5.42739E-02	9.16839E-02
0.06	5.53344E-02	9.30830E-02
0.07	5.62474E-02	9.43504E-02
0.08	5.71562E-02	9.55099E-02
0.09	5.79341E-02	9.64879E-02
0.10	5.86726E-02	9.74048E-02
0.11	5.93710E-02	9.83202E-02
0.12	6.01637E-02	9.91953E-02
0.13	6.08509E-02	1.00023E-01
0.14	6.15261E-02	1.00740E-01
0.15	6.20961E-02	1.01470E-01
0.16	6.26798E-02	1.02252E-01
0.17	6.32608E-02	1.02929E-01
0.18	6.38392E-02	1.03604E-01
0.19	6.44126E-02	1.04278E-01
0.20	6.49417E-02	0.104908
0.21	6.54496E-02	0.105545
0.22	6.59809E-02	0.106139
0.23	6.64586E-02	0.106765
0.24	6.69379E-02	0.107349
0.25	6.74149E-02	0.107963
0.26	6.78788E-02	0.108543
0.27	6.84055E-02	0.109100
0.28	6.88855E-02	0.109641
0.29	6.93940E-02	0.110190
0.30	6.98637E-02	0.110776
0.31	7.03663E-02	0.111325
0.32	7.08746E-02	0.111867
0.33	7.13714E-02	0.112481
0.34	7.18674E-02	0.113015
0.35	7.23558E-02	0.113555
0.36	7.28199E-02	0.114094
0.37	7.32781E-02	0.114631
0.38	7.37504E-02	0.115174
0.39	7.43024E-02	0.115663
0.40	7.47525E-02	0.116187
0.41	7.52470E-02	0.116719
0.42	7.57295E-02	0.117220
0.43	7.61993E-02	0.117733
0.44	7.67057E-02	0.118276
0.45	7.72203E-02	0.118811
0.46	7.77185E-02	0.119332
0.47	7.82537E-02	0.119864
0.48	7.87221E-02	0.120435
0.49	7.92283E-02	0.120961
0.50	7.97812E-02	0.121526

Probaility Points for $n = 50$

PP	KS	V
0.51	8.02487E-02	0.122039
0.52	8.07965E-02	0.122566
0.53	8.13231E-02	0.123084
0.54	8.18606E-02	0.123648
0.55	8.24289E-02	0.124215
0.56	8.29388E-02	0.124721
0.57	8.34634E-02	0.125267
0.58	8.40032E-02	0.125828
0.59	8.45750E-02	0.126364
0.60	8.51319E-02	0.126921
0.61	8.57447E-02	0.127491
0.62	8.62806E-02	0.128077
0.63	8.69101E-02	0.128663
0.64	8.75242E-02	0.129212
0.65	8.81460E-02	0.129813
0.66	8.87491E-02	0.130434
0.67	8.93161E-02	0.131072
0.68	8.99288E-02	0.131736
0.69	9.05960E-02	0.132353
0.70	9.12353E-02	0.133031
0.71	9.19558E-02	0.133759
0.72	9.26888E-02	0.134500
0.73	9.34580E-02	0.135219
0.74	9.41817E-02	0.135990
0.75	9.49226E-02	0.136669
0.76	9.57172E-02	0.137433
0.77	9.64848E-02	0.138142
0.78	9.72911E-02	0.138966
0.79	9.81802E-02	0.139761
0.80	9.91541E-02	0.140647
0.81	1.00134E-01	0.141550
0.82	1.01102E-01	0.142501
0.83	1.02147E-01	0.143460
0.84	1.03153E-01	0.144456
0.85	1.04346E-01	0.145487
0.86	0.105594	0.146550
0.87	0.106924	0.147677
0.88	0.108321	0.148859
0.89	0.109757	0.150167
0.90	0.111227	0.151704
0.91	0.112857	0.153066
0.92	0.114729	0.154742
0.93	0.116828	0.156534
0.94	0.119323	0.158580
0.95	0.122067	0.160997
0.96	0.125116	0.163940
0.97	0.128985	0.167313
0.98	0.134397	0.171780
0.99	0.142628	0.179543

C.2 Probability Points of CM and $CM(Ref)$

Probability Points of Standard CM Test

$(1-\alpha)$	$n=5$	$n=10$	$n=15$	$n=20$	$n=25$
0.80	0.0955798	0.0919096	0.0922350	0.0911421	0.0910485
0.81	0.0966317	0.0945330	0.0950505	0.0937836	0.0937293
0.82	0.101710	0.0972082	0.0977011	0.0967085	0.0967380
0.83	0.105311	0.100222	0.100606	0.0997718	0.0999523
0.84	0.108765	0.103180	0.103890	0.103047	0.103353
0.85	0.112341	0.106879	0.107314	0.106639	0.106668
0.86	0.116390	0.110282	0.110895	0.110018	0.110288
0.87	0.120847	0.114434	0.115040	0.113864	0.114433
0.88	0.125181	0.119284	0.119178	0.118343	0.118942
0.89	0.129716	0.123660	0.124007	0.122887	0.123794
0.90	0.134839	0.128567	0.129394	0.128213	0.128970
0.91	0.140460	0.134333	0.135318	0.133766	0.135241
0.92	0.146386	0.140941	0.141651	0.140608	0.141765
0.93	0.152563	0.148526	0.148745	0.148854	0.149354
0.94	0.159388	0.156776	0.158295	0.158388	0.158300
0.95	0.167139	0.166903	0.168319	0.168085	0.168849
0.96	0.175458	0.179238	0.180586	0.180464	0.181785
0.97	0.185127	0.195026	0.196053	0.198700	0.198465
0.98	0.196768	0.217214	0.218638	0.222858	0.222457
0.99	0.213669	0.252851	0.259573	0.262116	0.260229

Probability Points of Standard CM Test

$(1-\alpha)$	$n=30$	$n=35$	$n=40$	$n=45$	$n=50$
0.80	0.0907210	0.0906166	0.0904890	0.0908557	0.0903094
0.81	0.0935222	0.0933086	0.0928236	0.0932465	0.0928036
0.82	0.0962011	0.0960172	0.0955878	0.0961409	0.0958798
0.83	0.0992392	0.0991081	0.0985405	0.0991143	0.0988628
0.84	0.102258	0.102491	0.101736	0.102184	0.101926
0.85	0.105740	0.105847	0.105115	0.105427	0.105098
0.86	0.109465	0.109636	0.108799	0.109437	0.108765
0.87	0.113555	0.113745	0.112749	0.113261	0.112766
0.88	0.117850	0.117986	0.116956	0.117672	0.117270
0.89	0.122766	0.122659	0.122441	0.122575	0.121877
0.90	0.128208	0.128309	0.127736	0.128124	0.127578
0.91	0.134224	0.134413	0.134072	0.134627	0.133314
0.92	0.140999	0.140732	0.140366	0.141034	0.140281
0.93	0.148815	0.148209	0.148299	0.148868	0.147685
0.94	0.158125	0.157425	0.157477	0.157706	0.156957
0.95	0.168078	0.168077	0.167583	0.168483	0.168284
0.96	0.181051	0.180782	0.180867	0.181615	0.181620
0.97	0.197409	0.196437	0.198393	0.200434	0.198745
0.98	0.221497	0.221643	0.221622	0.225489	0.222297
0.99	0.261552	0.262323	0.261321	0.264658	0.263257

Probability Points of Reflected CM Test

$(1-\alpha)$	$n=5$	$n=10$	$n=15$	$n=20$	$n=25$
0.80	4.33629E-02	4.43938E-02	4.44772E-02	4.44864E-02	4.43559E-02
0.81	4.39843E-02	4.53215E-02	4.53916E-02	4.54521E-02	4.52727E-02
0.82	4.46567E-02	4.62153E-02	4.64050E-02	4.64067E-02	4.63045E-02
0.83	4.53367E-02	4.72593E-02	4.73903E-02	4.74330E-02	4.74082E-02
0.84	4.60226E-02	4.84588E-02	4.86072E-02	4.85610E-02	4.85138E-02
0.85	4.66730E-02	4.95772E-02	4.97925E-02	4.97996E-02	4.97395E-02
0.86	4.73964E-02	5.08808E-02	5.09995E-02	5.10762E-02	5.09438E-02
0.87	4.81278E-02	5.22987E-02	5.23847E-02	5.24849E-02	5.22500E-02
0.88	4.88682E-02	5.38364E-02	5.39358E-02	5.39403E-02	5.37461E-02
0.89	4.97845E-02	5.54554E-02	5.56146E-02	5.58291E-02	5.54607E-02
0.90	5.06471E-02	5.74351E-02	5.75473E-02	5.76146E-02	5.73742E-02
0.91	5.15826E-02	5.96310E-02	5.97673E-02	5.99599E-02	5.93789E-02
0.92	5.26234E-02	6.18520E-02	6.20672E-02	6.21579E-02	6.16871E-02
0.93	5.37795E-02	6.45554E-02	6.47024E-02	6.48515E-02	6.41413E-02
0.94	5.49783E-02	6.73681E-02	6.75678E-02	6.77571E-02	6.70560E-02
0.95	5.65944E-02	7.08767E-02	7.12666E-02	7.13287E-02	7.08376E-02
0.96	5.83631E-02	7.50680E-02	7.51600E-02	7.55807E-02	7.56484E-02
0.97	6.06072E-02	8.07142E-02	8.11374E-02	8.17736E-02	8.19794E-02
0.98	6.36702E-02	8.89877E-02	8.94693E-02	9.01711E-02	9.00418E-02
0.99	7.02251E-02	1.02571E-01	1.03407E-01	1.04592E-01	1.03467E-01

Probability Points of Reflected CM Test

$(1-\alpha)$	$n=30$	$n=35$	$n=40$	$n=45$	$n=50$
0.80	4.45131E-02	4.47858E-02	4.46692E-02	4.48784E-02	4.48157E-02
0.81	4.55388E-02	4.57812E-02	4.56274E-02	4.58531E-02	4.57963E-02
0.82	4.65353E-02	4.68051E-02	4.66480E-02	4.69305E-02	4.68486E-02
0.83	4.75791E-02	4.79270E-02	4.77282E-02	4.80311E-02	4.79594E-02
0.84	4.87133E-02	4.90880E-02	4.89102E-02	4.91818E-02	4.91688E-02
0.85	4.99301E-02	5.03279E-02	5.00654E-02	5.04691E-02	5.03497E-02
0.86	5.12857E-02	5.17999E-02	5.14270E-02	5.18060E-02	5.16243E-02
0.87	5.27372E-02	5.32711E-02	5.28670E-02	5.32327E-02	5.29905E-02
0.88	5.44200E-02	5.48954E-02	5.44816E-02	5.48031E-02	5.45328E-02
0.89	5.60750E-02	5.64873E-02	5.61539E-02	5.63547E-02	5.61779E-02
0.90	5.77336E-02	5.84623E-02	5.79023E-02	5.82345E-02	5.82263E-02
0.91	5.98624E-02	6.06181E-02	6.01270E-02	6.03086E-02	6.02157E-02
0.92	6.22602E-02	6.31797E-02	6.25519E-02	6.25932E-02	6.27239E-02
0.93	6.51339E-02	6.57529E-02	6.51440E-02	6.53492E-02	6.53125E-02
0.94	6.81322E-02	6.88610E-02	6.81814E-02	6.86602E-02	6.85840E-02
0.95	7.16247E-02	7.24047E-02	7.20353E-02	7.22290E-02	7.24221E-02
0.96	7.61843E-02	7.67425E-02	7.64809E-02	7.66944E-02	7.72085E-02
0.97	8.17723E-02	8.21766E-02	8.26143E-02	8.27659E-02	8.31598E-02
0.98	8.97240E-02	9.05324E-02	9.16252E-02	9.11075E-02	9.17008E-02
0.99	1.04427E-01	0.105836	0.107902	0.105865	0.106204

Appendix D. Power tables of $CM - V$

This appendix includes the complete results of $CM - V$ Tequential Test. The tables includes the power levels of the test against the Cauchy, Normal, Exponential, Beta, Gamma and Weibull respectively. For each alternative sample sizes $n5(5), 50$ is covered. After the tables for each alternative distributions the corresponding power graphs are presented. In the graphs "o" represents the power level of V test and "$*$" represents the power level of CM test. The straight line "_" represents the power of $CM - V$ sequential test.

Powers of $CM - V$ Sequential test against Cauchy for n = 5

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01132	.02166	.03222	.04270	.05278	.06252	.07242	.08270	.09286	.10352	.11218	.12200	.13218	.14284	.15272	.16224	.17386	.18398	.19346
0.02	.01016	.02072	.03080	.04106	.05124	.06110	.07070	.08048	.09062	.10068	.11112	.11970	.12938	.13926	.14986	.15954	.16894	.18038	.19038	.19978
0.03	.01986	.03012	.03986	.04986	.05970	.06938	.07882	.08842	.09842	.10834	.11856	.12698	.13642	.14612	.15658	.16610	.17538	.18670	.19686	.20580
0.04	.02976	.03952	.04918	.05894	.06858	.07812	.08732	.09672	.10656	.11632	.12640	.13478	.14416	.15372	.16404	.17336	.18266	.19372	.20344	.21280
0.05	.03922	.04868	.05802	.06750	.07688	.08632	.09536	.10456	.11424	.12382	.13376	.14210	.15138	.16074	.17094	.18006	.18920	.20014	.20978	.21870
0.06	.05028	.05918	.06818	.07752	.08652	.09566	.10440	.11338	.12288	.13224	.14204	.15024	.15938	.16864	.17852	.18748	.19646	.20718	.21676	.22550
0.07	.06068	.06922	.07800	.08712	.09584	.10472	.11334	.12202	.13136	.14054	.15012	.15814	.16712	.17622	.18590	.19480	.20366	.21422	.22362	.23224
0.08	.07058	.07862	.08700	.09588	.10436	.11316	.12168	.13022	.13930	.14838	.15770	.16558	.17430	.18334	.19286	.20156	.21022	.22058	.22988	.23830
0.09	.08136	.08890	.09704	.10568	.11390	.12246	.13072	.13904	.14794	.15684	.16592	.17368	.18228	.19112	.20046	.20902	.21764	.22772	.23690	.24522
0.10	.09182	.09902	.10692	.11518	.12316	.13146	.13946	.14758	.15622	.16494	.17392	.18150	.18990	.19860	.20788	.21634	.22460	.23446	.24376	.25194
0.11	.10346	.11024	.11778	.12576	.13342	.14142	.14920	.15718	.16568	.17432	.18310	.19050	.19880	.20738	.21650	.22488	.23300	.24292	.25180	.25976
0.12	.11322	.11966	.12682	.13464	.14216	.15000	.15758	.16532	.17372	.18226	.19088	.19818	.20630	.21472	.22366	.23184	.23984	.24964	.25844	.26622
0.13	.12276	.12882	.13568	.14328	.15056	.15824	.16566	.17330	.18154	.18980	.19822	.20540	.21332	.22164	.23048	.23866	.24656	.25616	.26484	.27234
0.14	.13320	.13886	.14550	.15276	.15986	.16734	.17456	.18208	.19012	.19828	.20656	.21356	.22128	.22936	.23806	.24612	.25390	.26316	.27176	.27922
0.15	.14252	.14786	.15404	.16120	.16804	.17524	.18232	.18976	.19774	.20584	.21380	.22066	.22828	.23630	.24492	.25284	.26058	.26970	.27832	.28560
0.16	.15246	.15720	.16318	.17004	.17676	.18374	.19078	.19806	.20588	.21382	.22170	.22944	.23596	.24386	.25236	.26012	.26764	.27666	.28500	.29224
0.17	.16226	.16656	.17232	.17896	.18542	.19224	.19918	.20628	.21384	.22160	.22940	.23592	.24324	.25104	.25934	.26684	.27436	.28324	.29142	.29884
0.18	.17240	.17648	.18196	.18824	.19450	.20120	.20798	.21484	.22230	.22976	.23736	.24374	.25096	.25862	.26688	.27418	.28152	.29028	.29832	.30530
0.19	.18240	.18616	.19144	.19746	.20360	.21022	.21678	.22346	.23070	.23798	.24542	.25170	.25878	.26632	.27444	.28164	.28880	.29738	.30528	.31210
0.20	.19250	.19596	.20084	.20658	.21248	.21892	.22530	.23170	.23874	.24588	.25320	.25944	.26636	.27378	.28174	.28884	.29586	.30432	.31210	.31884

Powers of $CM - V$ Sequential test against Cauchy for n = 10

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00940	.01988	.02996	.03986	.05052	.06030	.07078	.08094	.09098	.10052	.10946	.12160	.13234	.14184	.15244	.16180	.17210	.18122	.19118
0.02	.00992	.01874	.02882	.03852	.04812	.05850	.06788	.07816	.08802	.09782	.10714	.11600	.12790	.13836	.14772	.15818	.16734	.17746	.18642	.19616
0.03	.02006	.02846	.03802	.04742	.05674	.06678	.07596	.08588	.09548	.10502	.11410	.12274	.13436	.14466	.15382	.16410	.17306	.18304	.19180	.20142
0.04	.02920	.03730	.04650	.05566	.06480	.07448	.08350	.09320	.10260	.11190	.12076	.12914	.14058	.15068	.15964	.16968	.17854	.18828	.19678	.20632
0.05	.03972	.04726	.05614	.06494	.07382	.08328	.09210	.10152	.11068	.11974	.12838	.13652	.14758	.15742	.16614	.17594	.18456	.19406	.20244	.21180
0.06	.04908	.05638	.06492	.07350	.08216	.09136	.10004	.10928	.11822	.12704	.13552	.14352	.15434	.16398	.17262	.18222	.19072	.20012	.20824	.21742
0.07	.06050	.06720	.07536	.08370	.09200	.10092	.10940	.11838	.12712	.13576	.14400	.15184	.16238	.17176	.18016	.18950	.19780	.20704	.21496	.22394
0.08	.07114	.07752	.08544	.09346	.10130	.10996	.11830	.12712	.13566	.14408	.15204	.15962	.16978	.17902	.18736	.19656	.20468	.21384	.22164	.23030
0.09	.08092	.08682	.09440	.10230	.10972	.11818	.12624	.13480	.14312	.15134	.15906	.16652	.17656	.18560	.19376	.20284	.21082	.21980	.22742	.23582
0.10	.09118	.09666	.10398	.11152	.11868	.12700	.13488	.14322	.15120	.15928	.16672	.17388	.18376	.19256	.20062	.20960	.21736	.22618	.23366	.24192
0.11	.10094	.10614	.11320	.12060	.12760	.13574	.14344	.15158	.15940	.16724	.17452	.18152	.19118	.19970	.20766	.21644	.22410	.23278	.24020	.24828
0.12	.11042	.11538	.12214	.12930	.13602	.14404	.15162	.15950	.16718	.17492	.18206	.18882	.19842	.20672	.21446	.22306	.23014	.23938	.24638	.25432
0.13	.12030	.12490	.13136	.13832	.14480	.15272	.16020	.16776	.17526	.18282	.18980	.19658	.20596	.21408	.22216	.23010	.23752	.24590	.25300	.26082
0.14	.12998	.13426	.14058	.14728	.15360	.16132	.16860	.17592	.18328	.19068	.19750	.20406	.21330	.22124	.22866	.23698	.24420	.25244	.25934	.26696
0.15	.14010	.14412	.15016	.15654	.16266	.17006	.17714	.18434	.19148	.19880	.20550	.21196	.22100	.22876	.23598	.24410	.25120	.25934	.26612	.27340
0.16	.15036	.15406	.15990	.16604	.17194	.17914	.18606	.19314	.20022	.20736	.21394	.22028	.22916	.23670	.24370	.25164	.25864	.26674	.27332	.28062
0.17	.16086	.16434	.16992	.17580	.18134	.18840	.19516	.20202	.20892	.21596	.22246	.22866	.23730	.24466	.25154	.25932	.26618	.27408	.28044	.28756
0.18	.17146	.17470	.18004	.18548	.19100	.19784	.20440	.21110	.21786	.22470	.23102	.23700	.24554	.25282	.25948	.26714	.27382	.28162	.28784	.29482
0.19	.18086	.18390	.18908	.19442	.19980	.20652	.21284	.21934	.22594	.23260	.23882	.24474	.25322	.26038	.26682	.27428	.28080	.28854	.29470	.30162
0.20	.19104	.19394	.19884	.20388	.20910	.21564	.22160	.22810	.23452	.24102	.24710	.25294	.26122	.26812	.27452	.28194	.28832	.29594	.30202	.30876

Table D.1 Power tables of $CM - V$ against Cauchy ditribution

Powers of $CM - V$ Sequential test against Cauchy for $n = 15$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01100	.02134	.03048	.04000	.04920	.06056	.06996	.07894	.08920	.09950	.10908	.11804	.12920	.13888	.14830	.15764	.16752	.17704	.18766
0.02	.00922	.01952	.02946	.03832	.04752	.05648	.06744	.07654	.08532	.09534	.10542	.11488	.12374	.13466	.14408	.15328	.16240	.17206	.18144	.19184
0.03	.01982	.02964	.03914	.04774	.05650	.06516	.07578	.08474	.09338	.10308	.11294	.12212	.13074	.14136	.15013	.15970	.16870	.17810	.18728	.19740
0.04	.03030	.03948	.04858	.05696	.06544	.07396	.08402	.09266	.10106	.11054	.12010	.12906	.13754	.14798	.15[illegible]2	.16802	.17676	.18402	.19306	.20300
0.05	.04052	.04926	.05788	.06598	.07430	.08260	.09242	.10080	.10890	.11816	.12758	.13642	.14468	.15496	.16396	.17270	.18128	.19046	.19928	.20916
0.06	.05098	.05932	.06764	.07548	.08360	.09168	.10132	.10948	.11744	.12646	.13574	.14432	.15238	.16246	.17116	.17976	.18816	.19712	.20582	.21584
0.07	.06262	.07054	.07858	.08598	.09390	.10166	.11114	.11908	.12682	.13566	.14472	.15310	.16092	.17076	.17930	.18762	.19590	.20470	.21324	.22278
0.08	.07186	.07944	.08720	.09442	.10204	.10962	.11900	.12678	.13438	.14294	.15186	.16000	.16766	.17730	.18566	.19378	.20188	.21052	.21892	.22834
0.09	.08206	.08926	.09674	.10364	.11104	.11840	.12756	.13512	.14262	.15098	.15966	.16768	.17524	.18468	.19288	.20086	.20876	.21722	.22546	.23472
0.10	.09330	.10018	.10736	.11400	.12110	.12828	.13712	.14458	.15194	.16004	.16856	.17642	.18378	.19298	.20102	.20876	.21656	.22488	.23300	.24204
0.11	.10354	.11008	.11688	.12312	.12984	.13684	.14550	.15270	.15984	.16778	.17602	.18370	.19088	.19990	.20780	.21542	.22316	.23130	.23928	.24820
0.12	.11334	.11950	.12612	.13220	.13862	.14552	.15396	.16088	.16782	.17564	.18378	.19124	.19820	.20704	.21472	.22222	.22988	.23784	.24574	.25450
0.13	.12346	.12922	.13566	.14148	.14766	.15436	.16260	.16936	.17616	.18378	.19172	.19906	.20594	.21[illegible]	.22204	.22944	.23684	.24464	.25242	.26098
0.14	.13282	.13838	.14464	.15024	.15638	.16288	.17098	.17752	.18414	.19158	.19942	.20664	.21338	.22188	.22914	.23640	.24378	.25162	.25898	.26742
0.15	.14222	.14750	.15342	.15888	.16482	.17114	.17906	.18554	.19208	.19948	.20710	.21410	.22056	.22890	.23606	.24318	.25046	.25796	.26544	.27378
0.16	.15240	.15750	.16332	.16864	.17442	.18058	.18822	.19456	.20092	.20822	.21552	.22234	.22872	.23668	.24386	.25078	.25786	.26538	.27344	.28082
0.17	.16280	.16752	.17314	.17828	.18384	.18986	.19734	.20350	.20966	.21688	.22406	.23070	.23694	.24480	.25158	.25838	.26540	.27262	.27980	.28782
0.18	.17216	.17658	.18190	.18690	.19226	.19816	.20550	.21150	.21756	.22458	.23164	.23814	.24430	.25200	.25856	.26522	.27206	.27920	.28632	.29420
0.19	.18248	.18674	.19176	.19652	.20170	.20740	.21458	.22038	.22634	.23310	.23998	.24636	.25234	.25982	.26632	.27290	.27962	.28652	.29346	.30120
0.20	.19292	.19692	.20172	.20636	.21138	.21692	.22392	.22958	.23540	.24204	.24870	.25500	.26094	.26828	.27466	.28096	.28750	.29422	.30096	.30840

Powers of $CM - V$ Sequential test against Cauchy for $n = 20$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00868	.01944	.03000	.03954	.04824	.05900	.06970	.07934	.08838	.09868	.10816	.11992	.12978	.13882	.14862	.15862	.16912	.17986	.18998
0.02	.01056	.01878	.02890	.03906	.04836	.05684	.06728	.07770	.08718	.09600	.10600	.11524	.12668	.13638	.14524	.15470	.16448	.17482	.18540	.19540
0.03	.02168	.02940	.03906	.04858	.05762	.06574	.07572	.08580	.09492	.10358	.11322	.12226	.13346	.14290	.15156	.16076	.17046	.18060	.19092	.20072
0.04	.03168	.03898	.04832	.05762	.06640	.07426	.08380	.09358	.10250	.11098	.12052	.12938	.14024	.14942	.15796	.16704	.17652	.18636	.19660	.20622
0.05	.04164	.04876	.05770	.06642	.07498	.08252	.09174	.10128	.10992	.11820	.12762	.13624	.14674	.15580	.16420	.17310	.18250	.19228	.20222	.21162
0.06	.05216	.05878	.06726	.07566	.08396	.09126	.10022	.10946	.11780	.12690	.13[illegible]0	.14358	.15396	.16278	.17102	.17976	.18904	.19866	.20846	.21762
0.07	.06226	.06844	.07652	.08466	.09274	.09974	.10848	.11748	.12564	.13352	.14254	.15074	.16088	.16956	.17766	.18622	.19528	.20476	.21436	.22332
0.08	.07254	.07860	.08636	.09430	.10214	.10890	.11728	.12612	.13408	.14174	.15052	.15886	.16850	.17688	.18492	.19334	.20228	.21186	.22092	.22980
0.09	.08232	.08794	.09538	.10302	.11068	.11720	.12530	.13382	.14152	.14906	.15762	.16546	.17530	.18360	.19152	.19982	.20844	.21752	.22672	.23550
0.10	.09196	.09736	.10434	.11182	.11922	.12556	.13346	.14186	.14946	.15684	.16520	.17290	.18256	.19070	.19844	.20652	.21496	.22390	.23298	.24164
0.11	.10100	.10622	.11304	.12024	.12756	.13378	.14148	.14970	.15708	.16428	.17242	.17990	.18944	.19744	.20496	.21286	.22108	.22978	.23874	.24730
0.12	.11164	.11668	.12330	.13022	.13728	.14336	.15084	.15882	.16596	.17292	.18082	.18814	.19748	.20520	.21262	.22044	.22844	.23688	.24568	.25408
0.13	.12122	.12604	.13250	.13920	.14612	.15198	.15932	.16714	.17416	.18102	.18878	.19600	.20506	.21266	.21992	.22756	.23538	.24376	.25230	.26086
0.14	.13040	.13498	.14118	.14768	.15444	.16016	.16742	.17510	.18198	.18870	.19630	.20330	.21220	.21974	.22688	.23428	.24196	.25024	.25874	.26684
0.15	.14014	.14444	.15046	.15674	.16330	.16880	.17584	.18332	.19014	.19678	.20410	.21100	.21966	.22710	.23414	.24150	.24902	.25718	.26558	.27388
0.16	.15014	.15424	.16004	.16620	.17258	.17800	.18488	.19216	.19882	.20552	.21248	.21918	.22756	.23488	.24178	.24892	.25628	.26436	.27258	.28046
0.17	.15910	.16302	.16866	.17458	.18070	.18606	.19284	.19968	.20622	.21258	.21968	.22624	.23458	.24170	.24844	.25564	.26264	.27052	.27854	.28632
0.18	.16828	.17208	.17752	.18326	.18920	.19436	.20094	.20770	.21418	.22038	.22736	.23378	.24188	.24886	.25548	.26236	.26950	.27724	.28514	.29268
0.19	.17854	.18208	.18728	.19290	.19844	.20354	.21004	.21662	.22288	.22900	.23582	.24210	.25006	.25690	.26332	.27008	.27702	.28468	.29244	.29986
0.20	.18790	.19128	.19616	.20166	.20712	.21208	.21836	.22480	.23090	.23674	.24340	.24956	.25736	.26402	.27032	.27698	.28378	.29126	.29882	.30616

Table D.1 (Continued)

Powers of $CM - V$ Sequential test against Cauchy for $n = 25$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00892	.01866	.02902	.03842	.04812	.05866	.06922	.07844	.08882	.09846	.10906	.11932	.12968	.13938	.14994	.16036	.17164	.18316	.19404
0.02	.01030	.01872	.02798	.03790	.04708	.05638	.06660	.07690	.08582	.09580	.10524	.11554	.12554	.13572	.14510	.15538	.16552	.17656	.18774	.19842
0.03	.02108	.02916	.03814	.04770	.05660	.06562	.07552	.08556	.09416	.10388	.11314	.12326	.13298	.14292	.15206	.16206	.17204	.18278	.19370	.20426
0.04	.03172	.03922	.04780	.05696	.06556	.07432	.08402	.09370	.10222	.11186	.12096	.13088	.14030	.15002	.15894	.16884	.17878	.18936	.20010	.21036
0.05	.04144	.04866	.05696	.06574	.07398	.08250	.09206	.10132	.10966	.11904	.12804	.13786	.14700	.15654	.16532	.17512	.18492	.19528	.20588	.21586
0.06	.05168	.05856	.06652	.07500	.08298	.09118	.10054	.10954	.11774	.12700	.13578	.14542	.15440	.16376	.17240	.18202	.19170	.20182	.21216	.22190
0.07	.06096	.06752	.07518	.08344	.09116	.09908	.10820	.11704	.12506	.13416	.14278	.15234	.16108	.17036	.17882	.18830	.19780	.20774	.21790	.22742
0.08	.07060	.07680	.08430	.09224	.09982	.10748	.11648	.12514	.13298	.14190	.15036	.15968	.16828	.17740	.18572	.19500	.20432	.21406	.22398	.23332
0.09	.08048	.08686	.09406	.10180	.10902	.11646	.12520	.13354	.14116	.14992	.15818	.16724	.17566	.18464	.19286	.20196	.21112	.22064	.23050	.23978
0.10	.09082	.09652	.10348	.11094	.11792	.12518	.13372	.14178	.14930	.15778	.16582	.17472	.18294	.19172	.19986	.20882	.21784	.22722	.23686	.24594
0.11	.10114	.10666	.11334	.12050	.12724	.13436	.14268	.15052	.15788	.16618	.17406	.18280	.19078	.19934	.20726	.21600	.22480	.23406	.24358	.25260
0.12	.11090	.11624	.12260	.12958	.13610	.14304	.15122	.15886	.16604	.17414	.18186	.19044	.19832	.20678	.21454	.22308	.23174	.24078	.25006	.25872
0.13	.12028	.12522	.13148	.13830	.14464	.15136	.15936	.16682	.17390	.18186	.18950	.19794	.20568	.21392	.22148	.22990	.23840	.24718	.25636	.26496
0.14	.13090	.13564	.14178	.14838	.15442	.16102	.16878	.17606	.18296	.19074	.19816	.20644	.21392	.22210	.22944	.23772	.24604	.25468	.26362	.27204
0.15	.14100	.14554	.15154	.15780	.16362	.17006	.17766	.18474	.19148	.19908	.20632	.21432	.22160	.22960	.23686	.24494	.25306	.26148	.27026	.27854
0.16	.15166	.15604	.16170	.16766	.17320	.17954	.18682	.19374	.20036	.20784	.21492	.22272	.22986	.23764	.24472	.25266	.26066	.26898	.27768	.28570
0.17	.16196	.16608	.17150	.17728	.18260	.18866	.19584	.20246	.20884	.21616	.22310	.23066	.23764	.24526	.25220	.26000	.26780	.27584	.28436	.29232
0.18	.17204	.17594	.18108	.18662	.19168	.19756	.20450	.21092	.21712	.22422	.23096	.23834	.24520	.25270	.25948	.26716	.27482	.28272	.29102	.29884
0.19	.18244	.18618	.19102	.19630	.20120	.20694	.21360	.21984	.22584	.23280	.23940	.24672	.25346	.26080	.26746	.27500	.28248	.29022	.29840	.30616
0.20	.19146	.19510	.19974	.20482	.20944	.21502	.22158	.22770	.23356	.24040	.24692	.25418	.26080	.26800	.27450	.28190	.28922	.29684	.30486	.31250

Powers of $CM - V$ Sequential test against Cauchy for $n = 30$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00984	.02008	.02990	.03964	.04956	.06012	.07056	.08070	.09100	.10088	.11150	.12204	.13230	.14200	.15192	.16130	.17068	.18072	.19248
0.02	.01070	.01994	.02982	.03920	.04860	.05830	.06848	.07864	.08868	.09868	.10836	.11868	.12902	.13896	.14848	.15824	.16746	.17658	.18644	.19794
0.03	.02040	.02916	.03870	.04772	.05686	.06616	.07608	.08608	.09596	.10570	.11516	.12526	.13524	.14500	.15432	.16384	.17294	.18194	.19162	.20292
0.04	.03088	.03922	.04856	.05714	.06594	.07488	.08442	.09420	.10384	.11344	.12274	.13258	.14224	.15176	.16092	.17020	.17908	.18784	.19730	.20840
0.05	.04062	.04870	.05762	.06606	.07466	.08336	.09266	.10230	.11168	.12110	.13012	.13958	.14906	.15842	.16736	.17648	.18508	.19364	.20288	.21362
0.06	.05006	.05790	.06636	.07464	.08288	.09140	.10054	.10996	.11910	.12834	.13722	.14656	.15592	.16512	.17388	.18276	.19124	.19960	.20872	.21934
0.07	.06054	.06792	.07610	.08412	.09212	.10052	.10942	.11856	.12730	.13636	.14500	.15410	.16328	.17222	.18080	.18946	.19778	.20606	.21502	.22544
0.08	.07036	.07738	.08534	.09308	.10094	.10914	.11778	.12668	.13530	.14428	.15284	.16182	.17080	.17966	.18790	.19644	.20456	.21274	.22158	.23178
0.09	.07962	.08634	.09396	.10134	.10900	.11696	.12532	.13402	.14254	.15134	.15982	.16862	.17746	.18618	.19428	.20274	.21068	.21868	.22736	.23732
0.10	.09018	.09664	.10392	.11104	.11854	.12616	.13440	.14288	.15114	.15980	.16806	.17664	.18536	.19400	.20200	.21034	.21802	.22590	.23444	.24422
0.11	.09968	.10588	.11298	.11980	.12710	.13454	.14258	.15092	.15904	.16750	.17568	.18402	.19262	.20122	.20912	.21730	.22474	.23248	.24058	.25048
0.12	.10952	.11538	.12220	.12880	.13578	.14298	.15088	.15908	.16708	.17532	.18334	.19142	.19986	.20836	.21612	.22412	.23148	.23916	.24742	.25692
0.13	.11900	.12464	.13118	.13746	.14422	.15136	.15908	.16714	.17494	.18298	.19084	.19876	.20700	.21534	.22298	.23076	.23802	.24558	.25368	.26308
0.14	.12864	.13384	.14032	.14646	.15304	.15992	.16746	.17530	.18294	.19090	.19860	.20638	.21444	.22260	.23008	.23770	.24490	.25230	.26024	.26944
0.15	.13844	.14336	.14970	.15562	.16198	.16866	.17606	.18368	.19110	.19892	.20638	.21394	.22168	.22964	.23704	.24454	.25156	.25890	.26678	.27574
0.16	.14862	.15330	.15932	.16508	.17122	.17768	.18472	.19208	.19922	.20688	.21424	.22166	.22920	.23696	.24410	.25144	.25830	.26558	.27320	.28200
0.17	.15856	.16314	.16900	.17460	.18056	.18692	.19374	.20094	.20794	.21546	.22266	.22984	.23732	.24484	.25182	.25904	.26578	.27292	.28036	.28900
0.18	.16876	.17314	.17876	.18418	.18996	.19616	.20260	.20964	.21640	.22370	.23086	.23774	.24506	.25246	.25928	.26638	.27298	.27992	.28722	.29572
0.19	.17926	.18348	.18884	.19408	.19972	.20564	.21194	.21882	.22536	.23254	.23952	.24616	.25330	.26052	.26712	.27412	.28058	.28744	.29462	.30296
0.20	.19010	.19412	.19922	.20436	.20982	.21558	.22164	.22840	.23476	.24174	.24846	.25498	.26202	.26914	.27552	.28242	.28876	.29556	.30264	.31076

Table D.1 (Continued)

Powers of $CM - V$ Sequential test against Cauchy for n = 35

CM a / V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00978	.02024	.02972	.03972	.04928	.05926	.06970	.07916	.08926	.09980	.10934	.11886	.12924	.14002	.15024	.16058	.17204	.18144	.19176
0.02	.00996	.01934	.02948	.03860	.04814	.05748	.06728	.07746	.08678	.09668	.10712	.11640	.12560	.13572	.14632	.15628	.16624	.17744	.18854	.19856
0.03	.02106	.02992	.03976	.04866	.05788	.06686	.07640	.08632	.09534	.10506	.11526	.12430	.13320	.14310	.15344	.16314	.17294	.18378	.19266	.20242
0.04	.03156	.03982	.04928	.05794	.06692	.07544	.08466	.09424	.10306	.11256	.12258	.13142	.14016	.14990	.15990	.16934	.17892	.18944	.19796	.20756
0.05	.04196	.04978	.05886	.06726	.07582	.08418	.09332	.10258	.11122	.12056	.13026	.13878	.14746	.15696	.16676	.17598	.18530	.19556	.20384	.21320
0.06	.05306	.06044	.06916	.07730	.08556	.09372	.10264	.11168	.12002	.12910	.13866	.14694	.15548	.16474	.17436	.18346	.19254	.20258	.21072	.21982
0.07	.06220	.06934	.07780	.08572	.09372	.10174	.11044	.11920	.12738	.13622	.14564	.15376	.16208	.17122	.18074	.18972	.19870	.20856	.21652	.22552
0.08	.07148	.07828	.08628	.09398	.10180	.10964	.11816	.12672	.13468	.14334	.15262	.16062	.16888	.17780	.18724	.19614	.20502	.21472	.22260	.23144
0.09	.08162	.08808	.09584	.10326	.11078	.11834	.12670	.13510	.14290	.15124	.16040	.16826	.17634	.18512	.19442	.20318	.21190	.22140	.22910	.23782
0.10	.08996	.09614	.10376	.11106	.11836	.12574	.13402	.14214	.14976	.15794	.16700	.17478	.18266	.19138	.20044	.20904	.21760	.22692	.23456	.24306
0.11	.09860	.10440	.11182	.11898	.12616	.13342	.14152	.14940	.15690	.16488	.17380	.18148	.18922	.19780	.20666	.21516	.22352	.23268	.24012	.24884
0.12	.10848	.11386	.12104	.12798	.13502	.14200	.14990	.15746	.16470	.17260	.18136	.18892	.19644	.20482	.21350	.22186	.23006	.23812	.24644	.25468
0.13	.11934	.12462	.13146	.13812	.14484	.15172	.15948	.16684	.17392	.18164	.19026	.19770	.20500	.21322	.22164	.22980	.23780	.24664	.25382	.26194
0.14	.13068	.13570	.14226	.14866	.15520	.16192	.16950	.17662	.18346	.19096	.19938	.20670	.21382	.22186	.23012	.23812	.24592	.25462	.26160	.26956
0.15	.14024	.14500	.15138	.15750	.16386	.17032	.17772	.18456	.19128	.19860	.20686	.21408	.22110	.22890	.23706	.24480	.25250	.26114	.26800	.27578
0.16	.14964	.15420	.16028	.16616	.17238	.17864	.18578	.19240	.19894	.20616	.21430	.22126	.22816	.23580	.24390	.25154	.25910	.26760	.27440	.28196
0.17	.15992	.16424	.17006	.17574	.18172	.18782	.19476	.20118	.20758	.21462	.22252	.22934	.23616	.24370	.25160	.25916	.26656	.27482	.28144	.28892
0.18	.16890	.17290	.17850	.18400	.18984	.19568	.20256	.20884	.21510	.22206	.22984	.23668	.24336	.25074	.25840	.26582	.27296	.28102	.28744	.29482
0.19	.17878	.18264	.18812	.19356	.19926	.20488	.21168	.21784	.22398	.23076	.23832	.24510	.25164	.25890	.26644	.27364	.28068	.28860	.29498	.30220
0.20	.18872	.19240	.19748	.20274	.20814	.21356	.22024	.22626	.23234	.23894	.24642	.25302	.25944	.26664	.27410	.28120	.28820	.29606	.30230	.30932

Powers of $CM - V$ Sequential test against Cauchy for n = 40

CM a / V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00974	.01950	.03006	.04174	.04894	.05872	.06962	.07936	.09030	.10002	.11136	.12188	.13202	.14260	.15314	.16306	.17372	.18340	.19306
0.02	.00994	.01932	.02868	.03894	.05022	.05722	.06672	.07730	.08684	.09764	.10710	.11808	.12844	.13842	.14870	.15898	.16876	.17916	.18858	.19712
0.03	.01938	.02852	.03734	.04726	.05820	.06510	.07434	.08474	.09414	.10464	.11402	.12478	.13496	.14468	.15470	.16474	.17438	.18448	.19374	.20206
0.04	.03062	.03904	.04782	.05738	.06796	.07458	.08352	.09366	.10288	.11306	.12218	.13266	.14254	.15210	.16188	.17176	.18122	.19100	.20010	.20834
0.05	.04088	.04886	.05726	.06644	.07682	.08328	.09200	.10194	.11104	.12104	.13008	.14034	.15000	.15930	.16902	.17866	.18802	.19754	.20642	.21446
0.06	.04976	.05740	.06538	.07440	.08442	.09074	.09930	.10904	.11802	.12782	.13650	.14658	.15600	.16490	.17450	.18400	.19316	.20254	.21124	.21916
0.07	.06010	.06740	.07516	.08374	.09342	.09956	.10790	.11734	.12610	.13560	.14394	.15390	.16324	.17204	.18144	.19084	.19982	.20894	.21750	.22534
0.08	.07118	.07820	.08568	.09398	.10336	.10926	.11730	.12648	.13498	.14420	.15232	.16214	.17118	.17978	.18894	.19804	.20688	.21588	.22410	.23178
0.09	.08158	.08832	.09544	.10362	.11260	.11830	.12614	.13502	.14330	.15232	.16026	.16968	.17870	.18720	.19620	.20514	.21384	.22268	.23078	.23830
0.10	.09120	.09762	.10450	.11250	.12120	.12670	.13440	.14298	.15106	.15990	.16772	.17712	.18586	.19420	.20302	.21178	.22030	.22910	.23706	.24442
0.11	.10234	.10844	.11502	.12268	.13118	.13656	.14400	.15244	.16028	.16892	.17650	.18564	.19420	.20242	.21102	.21960	.22798	.23656	.24444	.25168
0.12	.11148	.11734	.12370	.13108	.13936	.14462	.15186	.16016	.16784	.17630	.18366	.19262	.20090	.20898	.21742	.22582	.23410	.24252	.25032	.25746
0.13	.12182	.12752	.13356	.14066	.14870	.15390	.16098	.16920	.17664	.18496	.19220	.20092	.20904	.21696	.22516	.23344	.24156	.24984	.25750	.26450
0.14	.13198	.13736	.14314	.14994	.15770	.16274	.16960	.17768	.18492	.19318	.20022	.20872	.21652	.22432	.23232	.24048	.24842	.25658	.26424	.27104
0.15	.14094	.14610	.15170	.15830	.16594	.17076	.17746	.18540	.19246	.20056	.20750	.21578	.22338	.23096	.23876	.24676	.25456	.26250	.27006	.27686
0.16	.15184	.15680	.16216	.16846	.17584	.18048	.18692	.19478	.20164	.20956	.21636	.22438	.23172	.23920	.24698	.25486	.26258	.27038	.27784	.28456
0.17	.16166	.16640	.17144	.17742	.18466	.18914	.19550	.20306	.20978	.21750	.22412	.23206	.23920	.24658	.25424	.26200	.26960	.27734	.28464	.29130
0.18	.17082	.17548	.18034	.18618	.19318	.19752	.20372	.21108	.21762	.22518	.23172	.23952	.24646	.25372	.26122	.26884	.27624	.28384	.29106	.29754
0.19	.18104	.18566	.19038	.19610	.20292	.20706	.21310	.22030	.22666	.23390	.24018	.24782	.25464	.26174	.26912	.27648	.28372	.29114	.29820	.30466
0.20	.19180	.19606	.20062	.20612	.21270	.21668	.22260	.22964	.23592	.24294	.24908	.25654	.26324	.27024	.27752	.28470	.29182	.29906	.30610	.31240

Table D.1 (Continued)

Powers of $CM - V$ Sequential test against Cauchy for $n = 45$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00928	.01936	.03014	.04028	.05046	.06002	.07008	.08066	.09212	.10246	.11312	.12302	.13292	.14348	.15320	.16300	.17438	.18512	.19366
0.02	.00962	.01848	.02814	.03848	.04832	.05818	.06752	.07730	.08760	.09884	.10886	.11934	.12896	.13860	.14878	.15822	.16786	.17896	.18944	.19786
0.03	.02012	.02844	.03760	.04752	.05724	.06676	.07596	.08542	.09548	.10644	.11630	.12652	.13596	.14544	.15534	.16446	.17396	.18486	.19492	.20318
0.04	.03016	.03810	.04696	.05654	.06604	.07528	.08422	.09348	.10320	.11386	.12356	.13360	.14278	.15204	.16178	.17076	.18002	.19064	.20050	.20858
0.05	.04112	.04864	.05724	.06632	.07544	.08440	.09308	.10206	.11162	.12204	.13160	.14136	.15036	.15946	.16896	.17772	.18660	.19696	.20672	.21466
0.06	.05112	.05822	.06648	.07508	.08394	.09282	.10130	.11004	.11948	.12966	.13902	.14842	.15710	.16606	.17536	.18402	.19266	.20286	.21240	.22018
0.07	.06184	.06850	.07634	.08470	.09330	.10192	.11018	.11870	.12796	.13800	.14718	.15644	.16486	.17354	.18270	.19112	.19960	.20956	.21892	.22656
0.08	.07138	.07772	.08528	.09342	.10172	.11020	.11828	.12656	.13560	.14554	.15456	.16374	.17190	.18044	.18944	.19776	.20610	.21580	.22498	.23250
0.09	.08200	.08794	.09526	.10312	.11104	.11932	.12720	.13522	.14418	.15394	.16270	.17168	.17966	.18800	.19686	.20504	.21328	.22286	.23188	.23932
0.10	.09350	.09910	.10610	.11370	.12136	.12938	.13708	.14490	.15362	.16316	.17178	.18040	.18832	.19640	.20502	.21300	.22102	.23042	.23932	.24666
0.11	.10316	.10846	.11536	.12282	.13026	.13804	.14552	.15314	.16156	.17090	.17940	.18782	.19562	.20356	.21206	.22002	.22774	.23696	.24562	.25284
0.12	.11398	.11906	.12572	.13292	.14002	.14762	.15466	.16206	.17032	.17936	.18774	.19600	.20368	.21148	.21972	.22744	.23496	.24394	.25254	.25970
0.13	.12416	.12904	.13540	.14236	.14928	.15646	.16332	.17060	.17860	.18736	.19558	.20374	.21108	.21880	.22682	.23436	.24182	.25058	.25904	.26616
0.14	.13490	.13950	.14552	.15228	.15890	.16582	.17248	.17960	.18734	.19590	.20394	.21200	.21926	.22678	.23458	.24198	.24924	.25780	.26606	.27304
0.15	.14516	.14950	.15530	.16184	.16828	.17502	.18154	.18844	.19604	.20436	.21226	.22010	.22726	.23458	.24214	.24934	.25652	.26490	.27302	.27994
0.16	.15522	.15944	.16498	.17136	.17762	.18412	.19044	.19710	.20456	.21266	.22050	.22822	.23526	.24250	.24998	.25696	.26400	.27222	.28018	.28694
0.17	.16606	.17010	.17538	.18148	.18748	.19384	.19992	.20636	.21374	.22164	.22938	.23702	.24386	.25100	.25826	.26500	.27200	.28006	.28786	.29458
0.18	.17558	.17942	.18448	.19046	.19626	.20246	.20842	.21460	.22192	.22952	.23716	.24474	.25144	.25850	.26562	.27220	.27914	.28710	.29482	.30140
0.19	.18510	.18870	.19360	.19942	.20502	.21110	.21688	.22288	.23016	.23760	.24514	.25252	.25914	.26608	.27306	.27942	.28624	.29410	.30156	.30808
0.20	.19520	.19860	.20342	.20912	.21448	.22038	.22592	.23170	.23882	.24610	.25348	.26070	.26716	.27398	.28084	.28708	.29378	.30140	.30864	.31510

Powers of $CM - V$ Sequential test against Cauchy for $n = 50$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00944	.01912	.02936	.03922	.05032	.06182	.07196	.08276	.09286	.10300	.11272	.12244	.13276	.14326	.15220	.16256	.17278	.18496	.19456
0.02	.01038	.01920	.02862	.03862	.04816	.05882	.07008	.07986	.09050	.10024	.11008	.11956	.12900	.13912	.14940	.15816	.16824	.17816	.19020	.19956
0.03	.02014	.02858	.03764	.04734	.05658	.06700	.07788	.08746	.09784	.10736	.11698	.12628	.13550	.14544	.15540	.16414	.17396	.18374	.19556	.20472
0.04	.03040	.03844	.04708	.05644	.06554	.07552	.08622	.09568	.10582	.11516	.12456	.13386	.14266	.15236	.16212	.17070	.18032	.18992	.20156	.21046
0.05	.04110	.04870	.05692	.06580	.07458	.08436	.09474	.10400	.11390	.12302	.13226	.14110	.14994	.15942	.16900	.17742	.18686	.19822	.20756	.21632
0.06	.05194	.05908	.06688	.07544	.08386	.09344	.10350	.11252	.12214	.13108	.14006	.14872	.15732	.16664	.17618	.18440	.19362	.20280	.21400	.22250
0.07	.06136	.06820	.07572	.08400	.09224	.10160	.11140	.12008	.12956	.13828	.14712	.15566	.16414	.17322	.18256	.19062	.19966	.20878	.21974	.22806
0.08	.07088	.07734	.08450	.09244	.10050	.10966	.11916	.12754	.13662	.14524	.15384	.16228	.17062	.17956	.18874	.19668	.20566	.21462	.22542	.23356
0.09	.08064	.08668	.09372	.10122	.10920	.11814	.12738	.13554	.14446	.15292	.16132	.16964	.17784	.18658	.19554	.20324	.21204	.22084	.23140	.23950
0.10	.08978	.09562	.10240	.10968	.11756	.12630	.13530	.14322	.15190	.16006	.16836	.17644	.18450	.19314	.20188	.20944	.21804	.22876	.23706	.24504
0.11	.10106	.10646	.11302	.12004	.12768	.13612	.14446	.15258	.16104	.16910	.17724	.18514	.19306	.20146	.21006	.21734	.22584	.23434	.24454	.25244
0.12	.11104	.11616	.12250	.12930	.13684	.14508	.15364	.16112	.16944	.17730	.18536	.19314	.20096	.20918	.21760	.22476	.23304	.24150	.25150	.25916
0.13	.12028	.12524	.13138	.13796	.14534	.15338	.16172	.16904	.17724	.18488	.19268	.20036	.20810	.21626	.22450	.23158	.23972	.24804	.25784	.26544
0.14	.12952	.13430	.14028	.14668	.15382	.16150	.16972	.17694	.18484	.19224	.19980	.20740	.21500	.22302	.23108	.23804	.24604	.25410	.26376	.27122
0.15	.13934	.14388	.14968	.15578	.16268	.17010	.17814	.18526	.19296	.20028	.20768	.21518	.22260	.23046	.23834	.24518	.25302	.26088	.27044	.27784
0.16	.14886	.15322	.15882	.16484	.17158	.17874	.18666	.19352	.20100	.20812	.21540	.22274	.23000	.23778	.24552	.25222	.25988	.26760	.27698	.28426
0.17	.15896	.16308	.16846	.17432	.18090	.18788	.19574	.20238	.20976	.21668	.22384	.23108	.23826	.24588	.25342	.25994	.26752	.27500	.28420	.29126
0.18	.16916	.17306	.17826	.18392	.19018	.19692	.20460	.21106	.21822	.22502	.23206	.23910	.24604	.25344	.26086	.26732	.27476	.28216	.29120	.29810
0.19	.17966	.18334	.18830	.19374	.19974	.20634	.21380	.22016	.22718	.23374	.24066	.24750	.25428	.26158	.26882	.27504	.28242	.28970	.29850	.30526
0.20	.19018	.19362	.19816	.20340	.20904	.21546	.22264	.22884	.23566	.24206	.24884	.25562	.26228	.26946	.27652	.28262	.28994	.29708	.30578	.31242

Table D.1 (Continued)

Powers of $CM - V$ Sequential test against Normal for $n = 5$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00640	.01288	.01960	.02650	.03358	.04080	.04810	.05654	.06538	.07378	.08238	.09134	.10074	.11094	.11956	.12868	.13934	.14830	.15782
0.02	.01524	.02132	.02736	.03372	.04026	.04696	.05364	.06068	.06870	.07728	.08544	.09368	.10242	.11162	.12140	.12972	.13860	.14890	.15764	.16696
0.03	.02916	.03486	.04066	.04674	.05300	.05948	.06602	.07282	.08052	.08884	.09674	.10478	.11334	.12224	.13184	.14010	.14870	.15864	.16722	.17628
0.04	.04280	.04798	.05344	.05920	.06534	.07164	.07792	.08452	.09188	.09996	.10746	.11520	.12344	.13214	.14146	.14954	.15806	.16786	.17628	.18514
0.05	.05562	.06040	.06574	.07118	.07698	.08314	.08902	.09534	.10254	.11048	.11782	.12534	.13344	.14198	.15100	.15894	.16716	.17664	.18494	.19352
0.06	.06950	.07402	.07908	.08412	.08964	.09544	.10106	.10712	.11406	.12178	.12888	.13620	.14406	.15234	.16118	.16886	.17686	.18616	.19430	.20268
0.07	.08218	.08640	.09114	.09608	.10140	.10694	.11244	.11830	.12492	.13226	.13920	.14638	.15410	.16212	.17082	.17822	.18614	.19522	.20320	.21140
0.08	.09408	.09788	.10220	.10692	.11206	.11738	.12266	.12836	.13480	.14198	.14882	.15578	.16322	.17094	.17944	.18674	.19446	.20334	.21120	.21918
0.09	.10708	.11064	.11478	.11930	.12420	.12938	.13442	.13984	.14606	.15294	.15954	.16628	.17360	.18106	.18932	.19644	.20400	.21260	.22022	.22804
0.10	.12006	.12326	.12718	.13150	.13612	.14116	.14600	.15124	.15714	.16382	.17018	.17676	.18392	.19104	.19916	.20602	.21340	.22188	.22932	.23688
0.11	.13414	.13704	.14060	.14460	.14892	.15378	.15838	.16340	.16910	.17552	.18172	.18800	.19500	.20184	.20986	.21656	.22372	.23208	.23932	.24656
0.12	.14766	.15030	.15356	.15722	.16134	.16602	.17044	.17522	.18076	.18694	.19284	.19900	.20568	.21232	.22012	.22652	.23342	.24158	.24866	.25572
0.13	.15918	.16164	.16462	.16816	.17206	.17654	.18080	.18540	.19070	.19662	.20234	.20830	.21482	.22126	.22880	.23502	.24176	.24970	.25656	.26350
0.14	.17182	.17386	.17654	.17990	.18368	.18802	.19208	.19646	.20160	.20736	.21294	.21872	.22506	.23130	.23852	.24456	.25116	.25886	.26556	.27228
0.15	.18484	.18662	.18912	.19214	.19580	.19988	.20362	.20772	.21266	.21824	.22360	.22922	.23530	.24132	.24818	.25402	.26048	.26800	.27450	.28096
0.16	.19812	.19964	.20188	.20478	.20834	.21218	.21566	.21960	.22428	.22974	.23494	.24036	.24638	.25214	.25878	.26448	.27066	.27784	.28414	.29034
0.17	.20978	.21120	.21330	.21602	.21934	.22304	.22638	.23014	.23474	.24004	.24508	.25032	.25608	.26168	.26806	.27362	.27956	.28646	.29256	.29874
0.18	.22180	.22304	.22496	.22736	.23050	.23404	.23728	.24086	.24526	.25034	.25520	.26026	.26586	.27128	.27750	.28290	.28866	.29536	.30128	.30730
0.19	.23462	.23570	.23740	.23950	.24244	.24572	.24878	.25220	.25652	.26140	.26588	.27076	.27616	.28140	.28752	.29278	.29836	.30492	.31068	.31642
0.20	.24690	.24784	.24946	.25132	.25400	.25694	.25976	.26306	.26716	.27182	.27608	.28080	.28596	.29106	.29702	.30214	.30760	.31400	.31962	.32506

Powers of $CM - V$ Sequential test against Normal for $n = 10$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00484	.01074	.01714	.02384	.03030	.03778	.04414	.05388	.06254	.07060	.07846	.08884	.09912	.10850	.11920	.12910	.14058	.15064	.16134
0.02	.02742	.03134	.03618	.04164	.04758	.05324	.05998	.06744	.07444	.08208	.08964	.09678	.10630	.11590	.12436	.13428	.14344	.15418	.16348	.17346
0.03	.05210	.05548	.05958	.06428	.06936	.07446	.08048	.08740	.09384	.10086	.10784	.11438	.12322	.13220	.14006	.14932	.15784	.16790	.17664	.18606
0.04	.07434	.07738	.08106	.08514	.08982	.09448	.09982	.10610	.11202	.11854	.12504	.13118	.13940	.14788	.15534	.16406	.17204	.18164	.18998	.19886
0.05	.09804	.10068	.10392	.10756	.11168	.11580	.12064	.12632	.13158	.13760	.14366	.14942	.15700	.16484	.17166	.17992	.18748	.19660	.20460	.21306
0.06	.12022	.12256	.12536	.12864	.13230	.13604	.14034	.14556	.15040	.15592	.16150	.16690	.17398	.18130	.18772	.19532	.20234	.21100	.21858	.22652
0.07	.14208	.14418	.14678	.14968	.15302	.15644	.16044	.16526	.16976	.17480	.17988	.18496	.19164	.19840	.20440	.21140	.21810	.22624	.23358	.24096
0.08	.16060	.16258	.16488	.16742	.17052	.17360	.17732	.18194	.18622	.19086	.19572	.20048	.20668	.21318	.21886	.22556	.23198	.23970	.24662	.25382
0.09	.18040	.18218	.18424	.18656	.18946	.19230	.19572	.20006	.20408	.20842	.21300	.21734	.22318	.22920	.23458	.24092	.24698	.25430	.26084	.26780
0.10	.19738	.19906	.20100	.20320	.20588	.20852	.21158	.21564	.21950	.22352	.22790	.23194	.23750	.24324	.24828	.25430	.26020	.26726	.27358	.28032
0.11	.21440	.21592	.21778	.21988	.22236	.22482	.22764	.23134	.23500	.23866	.24288	.24668	.25206	.25754	.26236	.26804	.27364	.28040	.28644	.29284
0.12	.23226	.23370	.23540	.23726	.23950	.24176	.24434	.24770	.25108	.25452	.25844	.26204	.26710	.27238	.27700	.28244	.28774	.29410	.29972	.30576
0.13	.24932	.25068	.25228	.25404	.25610	.25818	.26066	.26372	.26694	.27026	.27394	.27724	.28192	.28686	.29122	.29634	.30152	.30756	.31284	.31862
0.14	.26464	.26600	.26744	.26910	.27102	.27300	.27538	.27826	.28134	.28452	.28802	.29114	.29566	.30042	.30456	.30956	.31444	.32016	.32520	.33070
0.15	.27904	.28036	.28172	.28332	.28516	.28698	.28926	.29194	.29484	.29792	.30110	.30414	.30846	.31304	.31688	.32184	.32692	.33188	.33684	.34196
0.16	.29294	.29422	.29548	.29702	.29876	.30052	.30268	.30526	.30800	.31094	.31394	.31684	.32098	.32540	.32914	.33384	.33804	.34322	.34774	.35276
0.17	.30886	.31012	.31126	.31266	.31432	.31596	.31800	.32042	.32296	.32574	.32856	.33130	.33522	.33942	.34304	.34732	.35140	.35642	.36078	.36546
0.18	.32476	.32602	.32712	.32844	.32998	.33150	.33348	.33578	.33810	.34066	.34330	.34590	.34970	.35366	.35710	.36110	.36504	.36988	.37406	.37874
0.19	.33888	.34012	.34118	.34242	.34394	.34538	.34720	.34932	.35148	.35378	.35632	.35886	.36244	.36624	.36950	.37334	.37718	.38182	.38580	.39024
0.20	.35364	.35488	.35590	.35714	.35856	.35994	.36170	.36362	.36568	.36786	.37028	.37270	.37610	.37966	.38278	.38648	.39016	.39456	.39830	.40256

Table D.2 Power tables of $CM - V$ against Normal ditribution

Powers of $CM - V$ Sequential test against Normal for $n = 15$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00586	.01186	.01850	.02514	.03256	.04116	.04926	.05728	.06670	.07706	.08754	.09732	.10878	.11970	.13066	.14310	.15556	.16712	.18094
0.02	.04448	.04926	.05402	.05962	.06512	.07138	.07884	.08560	.09248	.10068	.10958	.11890	.12740	.13758	.14750	.15726	.16810	.17928	.18948	.20192
0.03	.08408	.08854	.09246	.09736	.10208	.10748	.11402	.11994	.12602	.13318	.14124	.14944	.15718	.16596	.17504	.18372	.19348	.20372	.21292	.22428
0.04	.12030	.12432	.12758	.13164	.13582	.14072	.14658	.15178	.15734	.16366	.17104	.17842	.18528	.19338	.20138	.20940	.21838	.22776	.23608	.24662
0.05	.15212	.15578	.15858	.16238	.16618	.17060	.17592	.18064	.18572	.19138	.19796	.20468	.21092	.21836	.22572	.23308	.24136	.24998	.25764	.26720
0.06	.18106	.18452	.18708	.19040	.19380	.19780	.20246	.20686	.21132	.21650	.22258	.22868	.23438	.24114	.24798	.25488	.26242	.27058	.27764	.28644
0.07	.20946	.21286	.21526	.21824	.22136	.22514	.22940	.23342	.23744	.24214	.24764	.25314	.25826	.26446	.27088	.27736	.28440	.29206	.29844	.30656
0.08	.23726	.23552	.23782	.24056	.24350	.24714	.25112	.25490	.25860	.26294	.26812	.27330	.27806	.28392	.28988	.29584	.30220	.30946	.31554	.32338
0.09	.25644	.25954	.26170	.26434	.26708	.27046	.27414	.27764	.28096	.28508	.28986	.29480	.29916	.30444	.31008	.31582	.32174	.32848	.33420	.34144
0.10	.28252	.28552	.28760	.29002	.29248	.29554	.29886	.30200	.30506	.30876	.31320	.31786	.32186	.32674	.33198	.33740	.34284	.34910	.35430	.36110
0.11	.30540	.30826	.31024	.31256	.31484	.31770	.32080	.32374	.32656	.32996	.33418	.33852	.34234	.34678	.35180	.35688	.36204	.36790	.37272	.37916
0.12	.32592	.32866	.33058	.33286	.33496	.33752	.34044	.34324	.34588	.34906	.35300	.35706	.36074	.36502	.36964	.37452	.37928	.38464	.38912	.39498
0.13	.34410	.34682	.34862	.35078	.35280	.35520	.35798	.36058	.36298	.36598	.36960	.37336	.37696	.38104	.38542	.39020	.39460	.39964	.40382	.40934
0.14	.36200	.36460	.36636	.36832	.37026	.37256	.37520	.37758	.37984	.38264	.38610	.38970	.39302	.39688	.40098	.40556	.40970	.41446	.41836	.42364
0.15	.38010	.38250	.38416	.38604	.38788	.39012	.39268	.39488	.39702	.39966	.40282	.40618	.40930	.41292	.41684	.42124	.42520	.42966	.43334	.43832
0.16	.39986	.40222	.40384	.40558	.40728	.40938	.41170	.41372	.41564	.41808	.42082	.42384	.42676	.43010	.43380	.43804	.44184	.44606	.44982	.45422
0.17	.41778	.42014	.42168	.42326	.42488	.42686	.42896	.43082	.43260	.43488	.43744	.44024	.44298	.44598	.44942	.45340	.45698	.46086	.46416	.46856
0.18	.43580	.43612	.43764	.43910	.44068	.44244	.44444	.44610	.44774	.44988	.45232	.45506	.45760	.46048	.46376	.46760	.47100	.47456	.47764	.48186
0.19	.44884	.45110	.45260	.45396	.45544	.45716	.45904	.46062	.46226	.46426	.46656	.46916	.47148	.47416	.47726	.48096	.48422	.48752	.49052	.49456
0.20	.46510	.46724	.46870	.46998	.47142	.47308	.47486	.47632	.47780	.47972	.48190	.48440	.48658	.48916	.49202	.49554	.49870	.50182	.50468	.50854

Powers of $CM - V$ Sequential test against Normal for $n = 20$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00534	.01144	.01980	.02836	.03668	.04724	.05902	.07012	.08176	.09384	.10640	.12026	.13244	.14562	.16102	.17590	.19106	.20636	.22286
0.02	.06922	.07354	.07858	.08548	.09284	.09974	.10860	.11826	.12746	.13712	.14750	.15790	.16974	.18030	.19174	.20466	.21692	.22996	.24322	.25726
0.03	.12410	.12780	.13238	.13820	.14452	.15054	.15808	.16632	.17434	.18250	.19138	.20060	.21084	.22020	.23010	.24152	.25218	.26378	.27648	.28764
0.04	.17382	.17714	.18112	.18608	.19168	.19708	.20348	.21076	.21764	.22466	.23226	.24032	.24962	.25790	.26660	.27664	.28620	.29690	.30742	.31828
0.05	.21884	.22186	.22558	.22986	.23484	.23964	.24530	.25186	.25814	.26424	.27092	.27812	.28640	.29378	.30156	.31078	.31932	.32870	.33808	.34778
0.06	.25592	.25876	.26208	.26592	.27050	.27490	.27998	.28582	.29148	.29692	.30314	.30962	.31732	.32404	.33112	.33978	.34748	.35606	.36446	.37336
0.07	.29018	.29284	.29592	.29942	.30368	.30764	.31230	.31768	.32274	.32776	.33332	.33930	.34634	.35254	.35900	.36686	.37382	.38164	.38922	.39712
0.08	.32014	.32268	.32560	.32888	.33294	.33664	.34112	.34604	.35058	.35526	.36048	.36604	.37252	.37828	.38410	.39112	.39734	.40454	.41150	.41902
0.09	.34564	.34814	.35096	.35416	.35794	.36146	.36574	.37024	.37454	.37886	.38378	.38910	.39512	.40050	.40600	.41252	.41852	.42520	.43178	.43870
0.10	.37042	.37284	.37542	.37844	.38198	.38518	.38928	.39352	.39764	.40178	.40640	.41130	.41686	.42200	.42720	.43328	.43886	.44512	.45134	.45776
0.11	.39430	.39664	.39910	.40198	.40536	.40838	.41236	.41636	.42012	.42408	.42832	.43288	.43820	.44292	.44776	.45320	.45836	.46424	.46998	.47602
0.12	.41732	.41958	.42190	.42448	.42770	.43052	.43432	.43796	.44148	.44520	.44912	.45340	.45846	.46286	.46736	.47240	.47706	.48262	.48798	.49346
0.13	.43848	.44066	.44282	.44526	.44830	.45098	.45462	.45812	.46138	.46490	.46856	.47246	.47716	.48108	.48546	.49022	.49466	.49992	.50496	.50994
0.14	.45786	.45988	.46198	.46430	.46724	.46970	.47320	.47646	.47950	.48294	.48632	.49000	.49442	.49816	.50222	.50656	.51084	.51580	.52056	.52512
0.15	.47724	.47914	.48110	.48330	.48608	.48832	.49162	.49460	.49750	.50078	.50384	.50734	.51142	.51500	.51884	.52298	.52694	.53158	.53602	.54038
0.16	.49544	.49732	.49916	.50126	.50388	.50596	.50914	.51200	.51478	.51790	.52084	.52416	.52804	.53138	.53508	.53900	.54284	.54702	.55122	.55512
0.17	.51296	.51474	.51656	.51856	.52112	.52306	.52612	.52888	.53156	.53456	.53722	.54040	.54400	.54712	.55056	.55426	.55776	.56190	.56592	.56942
0.18	.52758	.52934	.53112	.53300	.53544	.53734	.54028	.54296	.54544	.54826	.55080	.55386	.55726	.56022	.56358	.56732	.57054	.57444	.57834	.58164
0.19	.54584	.54748	.54920	.55102	.55338	.55518	.55796	.56050	.56276	.56542	.56786	.57066	.57390	.57680	.57994	.58334	.58640	.59008	.59358	.59688
0.20	.56314	.56466	.56636	.56810	.57040	.57204	.57468	.57704	.57916	.58158	.58394	.58658	.58960	.59228	.59520	.59836	.60118	.60462	.60812	.61096

Table D.2 (Continued)

Powers of $CM - V$ Sequential test against Normal for $n = 25$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00610	.01342	.02148	.03134	.04234	.05418	.06616	.07818	.09238	.10580	.12176	.13910	.15644	.17216	.18890	.20822	.22752	.24804	.26750
0.02	.09558	.10058	.10652	.11292	.12120	.12998	.13952	.14934	.15930	.17104	.18214	.19512	.20884	.22298	.23578	.24964	.26540	.28114	.29780	.31358
0.03	.16662	.17098	.17614	.18192	.18918	.19654	.20462	.21300	.22154	.23188	.24138	.25250	.26418	.27658	.28746	.29950	.31330	.32660	.34106	.35416
0.04	.23158	.23560	.24010	.24520	.25146	.25786	.26504	.27254	.27990	.28892	.29702	.30674	.31680	.32736	.33692	.34734	.35934	.37114	.38356	.39460
0.05	.28282	.28652	.29080	.29524	.30092	.30676	.31310	.31980	.32634	.33452	.34172	.35042	.35930	.36890	.37730	.38654	.39732	.40772	.41872	.42840
0.06	.32818	.33166	.33560	.33952	.34460	.34996	.35554	.36166	.36770	.37494	.38150	.38920	.39736	.40582	.41332	.42158	.43144	.44050	.45036	.45880
0.07	.36298	.36618	.36986	.37344	.37814	.38324	.38852	.39406	.39966	.40634	.41240	.41956	.42700	.43490	.44170	.44926	.45848	.46674	.47578	.48336
0.08	.39808	.40112	.40452	.40794	.41254	.41734	.42214	.42704	.43228	.43850	.44410	.45060	.45746	.46460	.47086	.47794	.48624	.49386	.50210	.50898
0.09	.42866	.43150	.43474	.43802	.44228	.44678	.45132	.45582	.46056	.46642	.47150	.47764	.48396	.49054	.49614	.50272	.51018	.51720	.52474	.53100
0.10	.45918	.46186	.46498	.46804	.47194	.47612	.48030	.48448	.48874	.49418	.49888	.50450	.51040	.51644	.52150	.52752	.53440	.54096	.54794	.55384
0.11	.48730	.48986	.49272	.49562	.49920	.50304	.50698	.51080	.51482	.51982	.52408	.52928	.53472	.54024	.54484	.55050	.55686	.56292	.56934	.57492
0.12	.51104	.51346	.51622	.51892	.52234	.52586	.52972	.53328	.53702	.54174	.54576	.55060	.55570	.56082	.56524	.57062	.57656	.58224	.58834	.59334
0.13	.53554	.53790	.54050	.54306	.54630	.54956	.55320	.55654	.56016	.56444	.56816	.57262	.57750	.58218	.58630	.59126	.59674	.60188	.60748	.61218
0.14	.55734	.55950	.56192	.56436	.56746	.57054	.57398	.57710	.58050	.58446	.58794	.59192	.59642	.60092	.60486	.60958	.61484	.61948	.62470	.62908
0.15	.57716	.57928	.58160	.58392	.58694	.58984	.59306	.59598	.59926	.60294	.60620	.60986	.61410	.61830	.62194	.62624	.63112	.63552	.64044	.64460
0.16	.59742	.59944	.60164	.60384	.60676	.60950	.61256	.61528	.61840	.62180	.62480	.62824	.63216	.63614	.63946	.64332	.64782	.65196	.65648	.66022
0.17	.61534	.61730	.61942	.62154	.62434	.62692	.62976	.63234	.63540	.63878	.64164	.64484	.64856	.65222	.65530	.65886	.66296	.66690	.67114	.67456
0.18	.63096	.63286	.63484	.63692	.63964	.64212	.64472	.64720	.65016	.65326	.65604	.65910	.66256	.66600	.66898	.67226	.67616	.67992	.68402	.68726
0.19	.64658	.64844	.65032	.65230	.65488	.65722	.65976	.66218	.66486	.66792	.67058	.67354	.67684	.68014	.68296	.68604	.68972	.69324	.69712	.70014
0.20	.66114	.66292	.66472	.66662	.66906	.67130	.67366	.67608	.67860	.68144	.68396	.68670	.68992	.69294	.69570	.69870	.70214	.70550	.70906	.71192

Powers of $CM - V$ Sequential test against Normal for $n = 30$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00730	.01608	.02622	.03768	.05076	.06476	.08024	.09514	.11330	.13188	.15190	.17154	.19222	.21298	.23326	.25426	.27482	.29510	.31600
0.02	.13530	.14114	.14814	.15632	.16530	.17540	.18648	.19876	.21070	.22532	.24028	.25596	.27126	.28730	.30310	.31886	.33488	.35066	.36590	.38416
0.03	.22118	.22646	.23252	.23960	.24726	.25582	.26532	.27590	.28622	.29840	.31082	.32396	.33706	.35026	.36356	.37676	.39036	.40382	.41642	.43154
0.04	.29530	.29996	.30522	.31136	.31808	.32532	.33356	.34268	.35174	.36246	.37284	.38416	.39538	.40674	.41844	.42984	.44154	.45286	.46382	.47628
0.05	.35530	.35944	.36420	.36970	.37546	.38190	.38914	.39718	.40536	.41480	.42400	.43388	.44370	.45384	.46420	.47422	.48456	.49436	.50384	.51486
0.06	.40398	.40778	.41214	.41714	.42232	.42794	.43454	.44188	.44926	.45780	.46602	.47488	.48368	.49288	.50232	.51128	.52068	.52938	.53778	.54772
0.07	.44698	.45044	.45442	.45904	.46384	.46904	.47498	.48154	.48828	.49614	.50338	.51124	.51896	.52738	.53596	.54406	.55240	.56024	.56788	.57662
0.08	.48258	.48580	.48942	.49370	.49812	.50264	.50802	.51408	.52024	.52738	.53412	.54116	.54828	.55604	.56406	.57130	.57878	.58604	.59320	.60128
0.09	.51222	.51526	.51874	.52288	.52694	.53110	.53618	.54186	.54742	.55414	.56022	.56664	.57320	.58028	.58756	.59414	.60102	.60782	.61424	.62184
0.10	.54312	.54590	.54920	.55310	.55680	.56072	.56534	.57066	.57574	.58198	.58770	.59360	.59964	.60602	.61272	.61886	.62498	.63122	.63682	.64362
0.11	.56906	.57166	.57480	.57848	.58184	.58554	.58966	.59454	.59914	.60502	.61034	.61584	.62144	.62736	.63350	.63902	.64498	.65080	.65606	.66220
0.12	.59342	.59586	.59880	.60232	.60556	.60900	.61280	.61718	.62154	.62684	.63188	.63704	.64230	.64790	.65364	.65874	.66434	.66972	.67486	.68048
0.13	.61560	.61792	.62076	.62414	.62720	.63044	.63404	.63806	.64224	.64714	.65186	.65660	.66156	.66686	.67214	.67684	.68202	.68706	.69186	.69714
0.14	.63592	.63810	.64076	.64406	.64700	.65002	.65342	.65722	.66118	.66572	.67022	.67470	.67944	.68444	.68928	.69372	.69840	.70318	.70754	.71334
0.15	.65546	.65752	.66000	.66308	.66580	.66868	.67196	.67558	.67932	.68350	.68786	.69190	.69632	.70092	.70552	.70970	.71424	.71850	.72264	.72716
0.16	.67514	.67708	.67942	.68240	.68496	.68774	.69076	.69418	.69780	.70182	.70570	.70976	.71388	.71810	.72230	.72622	.73038	.73422	.73800	.74196
0.17	.69240	.69424	.69656	.69930	.70164	.70430	.70714	.71038	.71380	.71760	.72116	.72492	.72870	.73264	.73662	.74028	.74420	.74784	.75140	.75502
0.18	.70826	.71002	.71224	.71488	.71708	.71960	.72230	.72528	.72850	.73202	.73534	.73894	.74262	.74628	.75012	.75356	.75726	.76060	.76390	.76712
0.19	.72350	.72516	.72726	.72970	.73176	.73398	.73656	.73936	.74236	.74584	.74904	.75252	.75600	.75942	.76308	.76624	.76972	.77286	.77590	.77886
0.20	.73804	.73964	.74164	.74386	.74584	.74786	.75030	.75302	.75586	.75916	.76210	.76546	.76872	.77190	.77534	.77836	.78162	.78470	.78756	.79036

Table D.2 (Continued)

Powers of $CM - V$ Sequential test against Normal for $n = 35$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00956	.02098	.03314	.04638	.06250	.08050	.09948	.11792	.13914	.16158	.18328	.20378	.22842	.25202	.27536	.30042	.32426	.34724	.37240
0.02	.16536	.17284	.18170	.19126	.20136	.21418	.22788	.24266	.25688	.27332	.29066	.30744	.32342	.34246	.36008	.37766	.39654	.41378	.43070	.44906
0.03	.27686	.28320	.29080	.29876	.30716	.31810	.32958	.34202	.35348	.36666	.38084	.39492	.40776	.42328	.43784	.45226	.46696	.48060	.49426	.50846
0.04	.36104	.36652	.37318	.38002	.38746	.39686	.40668	.41752	.42740	.43866	.45078	.46286	.47394	.48692	.49912	.51116	.52368	.53540	.54672	.55854
0.05	.42500	.42994	.43598	.44218	.44880	.45716	.46566	.47516	.48396	.49400	.50432	.51522	.52484	.53630	.54678	.55718	.56812	.57786	.58764	.59782
0.06	.47962	.48426	.48974	.49520	.50130	.50872	.51640	.52464	.53232	.54110	.55030	.56000	.56852	.57856	.58794	.59720	.60680	.61816	.62354	.63356
0.07	.52216	.52652	.53128	.53628	.54178	.54856	.55554	.56314	.56996	.57788	.58592	.59446	.60216	.61140	.61970	.62826	.63690	.64444	.65186	.65976
0.08	.56234	.56638	.57084	.57564	.58064	.58668	.59298	.59988	.60606	.61324	.62052	.62808	.63486	.64332	.65072	.65850	.66606	.67296	.67950	.68658
0.09	.59356	.59730	.60144	.60584	.61052	.61610	.62180	.62828	.63398	.64068	.64724	.65424	.66048	.66810	.67482	.68196	.68878	.69506	.70112	.70754
0.10	.62220	.62574	.62958	.63364	.63800	.64310	.64850	.65440	.65958	.66580	.67188	.67834	.68408	.69098	.69722	.70364	.70994	.71562	.72110	.72692
0.11	.64608	.64928	.65296	.65676	.66068	.66550	.67040	.67578	.68064	.68644	.69202	.69794	.70328	.70968	.71544	.72140	.72722	.73242	.73748	.74286
0.12	.67178	.67468	.67798	.68148	.68514	.68956	.69418	.69922	.70368	.70894	.71402	.71952	.72440	.73034	.73556	.74094	.74638	.75098	.75552	.76052
0.13	.69400	.69670	.69980	.70312	.70644	.71044	.71478	.71942	.72362	.72844	.73330	.73838	.74280	.74828	.75286	.75796	.76290	.76706	.77128	.77572
0.14	.71654	.71900	.72182	.72498	.72804	.73174	.73580	.74008	.74394	.74840	.75282	.75756	.76152	.76640	.77044	.77504	.77958	.78344	.78742	.79144
0.15	.73426	.73660	.73922	.74224	.74514	.74860	.75248	.75642	.76002	.76414	.76824	.77272	.77648	.78092	.78460	.78884	.79320	.79670	.80030	.80398
0.16	.75098	.75314	.75560	.75844	.76120	.76436	.76798	.77174	.77504	.77890	.78264	.78686	.79026	.79442	.79782	.80182	.80586	.80904	.81236	.81584
0.17	.76674	.76880	.77112	.77384	.77626	.77932	.78264	.78616	.78930	.79294	.79644	.80040	.80362	.80752	.81068	.81446	.81822	.82120	.82430	.82756
0.18	.78008	.78204	.78424	.78676	.78906	.79200	.79512	.79844	.80134	.80466	.80796	.81172	.81470	.81836	.82136	.82496	.82856	.83144	.83434	.83728
0.19	.79268	.79452	.79660	.79890	.80104	.80376	.80674	.80986	.81258	.81576	.81880	.82244	.82526	.82874	.83156	.83494	.83836	.84106	.84372	.84644
0.20	.80520	.80692	.80890	.81110	.81314	.81564	.81848	.82130	.82382	.82678	.82956	.83298	.83556	.83888	.84142	.84462	.84782	.85030	.85278	.85526

Powers of $CM - V$ Sequential test against Normal for $n = 40$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00950	.02142	.03740	.05848	.07352	.09418	.11700	.14038	.16630	.19302	.22412	.25024	.27762	.30392	.32990	.35672	.38272	.41000	.43284
0.02	.19970	.20724	.21646	.22860	.24490	.25668	.27216	.28940	.30700	.32638	.34608	.36938	.38854	.40838	.42744	.44642	.46530	.48332	.50346	.51948
0.03	.32532	.33160	.33902	.34872	.36234	.37206	.38468	.39896	.41314	.42864	.44462	.46312	.47874	.49478	.51010	.52510	.54032	.55420	.56996	.58272
0.04	.41730	.42270	.42906	.43738	.44862	.45692	.46756	.47960	.49148	.50458	.51826	.53372	.54710	.56042	.57310	.58558	.59828	.60960	.62232	.63232
0.05	.48414	.48908	.49474	.50206	.51196	.51928	.52834	.53898	.54938	.56070	.57288	.58646	.59784	.60942	.62028	.63058	.64130	.65108	.66176	.67032
0.06	.53704	.54148	.54642	.55306	.56188	.56844	.57646	.58588	.59518	.60518	.61602	.62796	.63796	.64822	.65794	.66694	.67618	.68446	.69382	.70110
0.07	.58730	.59120	.59582	.60172	.60962	.61528	.62242	.63072	.63902	.64800	.65734	.66766	.67632	.68534	.69380	.70156	.70952	.71690	.72498	.73130
0.08	.62746	.63102	.63506	.64036	.64748	.65264	.65900	.66662	.67412	.68204	.69040	.69944	.70742	.71520	.72376	.72948	.73662	.74310	.75004	.75556
0.09	.66208	.66520	.66884	.67352	.67992	.68464	.69028	.69718	.70396	.71092	.71846	.72654	.73342	.74038	.74720	.75310	.75936	.76482	.77108	.77604
0.10	.69082	.69376	.69698	.70112	.70692	.71120	.71636	.72280	.72894	.73536	.74216	.74948	.75578	.76192	.76832	.77374	.77932	.78422	.78994	.79446
0.11	.72048	.72316	.72600	.72974	.73506	.73902	.74366	.74954	.75518	.76088	.76692	.77346	.77912	.78428	.78990	.79478	.79962	.80406	.80924	.81332
0.12	.74196	.74448	.74714	.75060	.75556	.75910	.76332	.76858	.77364	.77892	.78420	.79026	.79546	.80018	.80530	.80968	.81412	.81830	.82294	.82680
0.13	.76278	.76512	.76748	.77070	.77532	.77866	.78262	.78726	.79196	.79698	.80182	.80740	.81226	.81648	.82092	.82492	.82906	.83288	.83718	.84046
0.14	.78150	.78370	.78590	.78886	.79308	.79616	.79980	.80402	.80838	.81290	.81754	.82246	.82712	.83102	.83506	.83874	.84252	.84610	.84988	.85290
0.15	.79644	.79850	.80058	.80332	.80716	.81004	.81346	.81758	.82128	.82546	.82988	.83436	.83880	.84244	.84616	.84942	.85300	.85630	.85974	.86262
0.16	.81126	.81310	.81510	.81766	.82130	.82398	.82710	.83082	.83436	.83824	.84224	.84642	.85062	.85390	.85722	.86012	.86344	.86648	.86982	.87218
0.17	.82448	.82622	.82806	.83042	.83382	.83630	.83920	.84252	.84584	.84940	.85318	.85700	.86098	.86414	.86724	.86984	.87288	.87554	.87840	.88076
0.18	.83588	.83750	.83922	.84144	.84452	.84684	.84956	.85258	.85570	.85904	.86256	.86616	.86988	.87274	.87568	.87808	.88096	.88350	.88616	.88832
0.19	.84608	.84758	.84922	.85124	.85412	.85626	.85878	.86172	.86468	.86770	.87100	.87444	.87778	.88062	.88336	.88560	.88818	.89058	.89304	.89508
0.20	.85646	.85780	.85926	.86108	.86364	.86560	.86798	.87062	.87336	.87628	.87942	.88250	.88578	.88830	.89092	.89304	.89548	.89770	.89992	.90170

Table D.2 (Continued)

Powers of $CM - V$ Sequential test against Normal for $n = 45$

CM a / V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01066	.02544	.04558	.06554	.08928	.11452	.14138	.16780	.19818	.22970	.26006	.29028	.31882	.35070	.37810	.40498	.43358	.46274	.48774
0.02	.24196	.24948	.26048	.27488	.28906	.30642	.32492	.34452	.36408	.38610	.40816	.42898	.45076	.47126	.49370	.51236	.53120	.55050	.57052	.58716
0.03	.38224	.38814	.39694	.40856	.42004	.43386	.44862	.46416	.47998	.49768	.51488	.53172	.54844	.56434	.58170	.59600	.61006	.62486	.64020	.65336
0.04	.47376	.47892	.48620	.49608	.50594	.51756	.53026	.54372	.55734	.57210	.58666	.60024	.61420	.62706	.64096	.65284	.66456	.67676	.68944	.69982
0.05	.54706	.55158	.55802	.56654	.57518	.58472	.59542	.60710	.61888	.63152	.64410	.65584	.66762	.67818	.68984	.69992	.70950	.71986	.73002	.73860
0.06	.60580	.60980	.61532	.62274	.62996	.63812	.64748	.65760	.66774	.67884	.68966	.69964	.70978	.71872	.72860	.73730	.74554	.75440	.76322	.77050
0.07	.65194	.65544	.66056	.66716	.67374	.68108	.68936	.69830	.70734	.71702	.72638	.73506	.74378	.75164	.76046	.76796	.77504	.78262	.79026	.79642
0.08	.68836	.69146	.69602	.70188	.70766	.71434	.72164	.72930	.73718	.74550	.75422	.76196	.76986	.77696	.78466	.79130	.79774	.80434	.81126	.81670
0.09	.72154	.72436	.72848	.73378	.73888	.74464	.75110	.75800	.76508	.77296	.78052	.78750	.79436	.80074	.80760	.81346	.81886	.82486	.83080	.83552
0.10	.75218	.75476	.75854	.76316	.76768	.77280	.77862	.78484	.79084	.79784	.80422	.81048	.81660	.82214	.82814	.83326	.83804	.84342	.84870	.85272
0.11	.77408	.77648	.77986	.78386	.78802	.79256	.79776	.80336	.80888	.81530	.82116	.82694	.83256	.83780	.84326	.84778	.85224	.85704	.86182	.86552
0.12	.79584	.79804	.80108	.80454	.80830	.81232	.81714	.82208	.82688	.83246	.83774	.84310	.84810	.85262	.85756	.86150	.86560	.86978	.87422	.87754
0.13	.81228	.81426	.81702	.82020	.82362	.82730	.83180	.83636	.84084	.84602	.85082	.85574	.86036	.86466	.86908	.87278	.87666	.88040	.88444	.88750
0.14	.82884	.83066	.83314	.83598	.83914	.84240	.84648	.85076	.85462	.85944	.86402	.86852	.87260	.87642	.88034	.88366	.88726	.89066	.89430	.89706
0.15	.84114	.84286	.84522	.84794	.85100	.85406	.85788	.86186	.86566	.87002	.87434	.87852	.88218	.88574	.88924	.89234	.89578	.89882	.90228	.90490
0.16	.85300	.85450	.85668	.85916	.86206	.86490	.86844	.87202	.87556	.87958	.88358	.88736	.89060	.89400	.89718	.90016	.90334	.90618	.90944	.91186
0.17	.86514	.86648	.86846	.87070	.87330	.87594	.87932	.88260	.88590	.88972	.89330	.89674	.89966	.90278	.90564	.90832	.91120	.91368	.91668	.91876
0.18	.87482	.87604	.87778	.87988	.88232	.88466	.88788	.89100	.89414	.89766	.90102	.90432	.90704	.90990	.91264	.91510	.91778	.91996	.92266	.92466
0.19	.88398	.88514	.88676	.88862	.89090	.89312	.89610	.89900	.90192	.90528	.90836	.91148	.91392	.91662	.91916	.92152	.92396	.92592	.92826	.93010
0.20	.89364	.89474	.89624	.89786	.90000	.90210	.90478	.90748	.91016	.91306	.91596	.91880	.92104	.92352	.92574	.92798	.93022	.93202	.93412	.93586

Powers of $CM - V$ Sequential test against Normal for $n = 50$

CM a / V a	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01264	.03026	.05188	.07610	.10726	.13818	.16828	.20378	.23560	.27172	.30436	.33846	.37162	.40440	.43436	.46438	.49442	.52618	.55368
0.02	.28278	.29166	.30382	.31888	.33748	.35802	.37966	.40106	.42576	.44786	.47274	.49486	.51734	.53974	.56152	.58212	.60188	.62144	.64270	.66042
0.03	.42718	.43418	.44386	.45602	.47098	.48724	.50404	.52070	.53996	.55694	.57630	.59332	.61084	.62822	.64468	.66136	.67684	.69160	.70796	.72118
0.04	.52372	.52950	.53738	.54714	.55958	.57336	.58740	.60112	.61722	.63134	.64702	.66104	.67528	.68946	.70296	.71638	.72888	.74058	.75392	.76484
0.05	.60150	.60646	.61336	.62184	.63232	.64396	.65568	.66714	.68016	.69168	.70458	.71620	.72766	.73918	.75030	.76140	.77162	.78100	.79172	.80074
0.06	.65756	.66192	.66782	.67514	.68392	.69384	.70402	.71382	.72474	.73458	.74570	.75540	.76500	.77482	.78440	.79402	.80262	.81082	.81970	.82736
0.07	.70048	.70432	.70936	.71574	.72344	.73224	.74126	.74986	.75940	.76796	.77776	.78604	.79462	.80314	.81146	.81996	.82758	.83424	.84228	.84866
0.08	.73478	.73808	.74240	.74810	.75512	.76280	.77088	.77854	.78690	.79452	.80336	.81080	.81824	.82592	.83328	.84100	.84740	.85348	.86068	.86630
0.09	.76280	.76576	.76958	.77476	.78086	.78792	.79516	.80222	.80970	.81648	.82412	.83058	.83718	.84396	.85038	.85722	.86294	.86814	.87466	.87974
0.10	.78682	.78952	.79306	.79774	.80332	.80956	.81612	.82248	.82914	.83538	.84212	.84786	.85360	.85952	.86522	.87144	.87658	.88116	.88690	.89136
0.11	.81296	.81520	.81824	.82226	.82728	.83280	.83844	.84396	.84972	.85510	.86106	.86586	.87084	.87594	.88098	.88648	.89094	.89498	.89978	.90368
0.12	.83198	.83402	.83674	.84028	.84474	.84958	.85448	.85970	.86482	.86950	.87480	.87914	.88356	.88810	.89254	.89754	.90154	.90488	.90910	.91262
0.13	.84644	.84826	.85076	.85394	.85802	.86256	.86702	.87182	.87648	.88076	.88582	.88970	.89386	.89788	.90184	.90648	.90984	.91324	.91728	.92052
0.14	.86128	.86302	.86522	.86806	.87164	.87580	.87984	.88414	.88836	.89230	.89688	.90036	.90410	.90772	.91144	.91564	.91854	.92174	.92530	.92830
0.15	.87328	.87494	.87682	.87940	.88278	.88658	.89030	.89418	.89804	.90160	.90586	.90922	.91258	.91576	.91912	.92298	.92558	.92842	.93166	.93426
0.16	.88488	.88634	.88804	.89034	.89342	.89660	.90020	.90372	.90718	.91032	.91426	.91718	.92018	.92306	.92610	.92960	.93208	.93484	.93782	.94002
0.17	.89598	.89740	.89890	.90104	.90370	.90684	.90994	.91304	.91624	.91906	.92264	.92628	.92794	.93056	.93342	.93656	.93874	.94094	.94364	.94574
0.18	.90372	.90508	.90642	.90850	.91090	.91374	.91654	.91940	.92228	.92476	.92814	.93058	.93318	.93556	.93812	.94110	.94314	.94514	.94784	.94980
0.19	.91382	.91498	.91620	.91802	.92018	.92276	.92534	.92792	.93052	.93278	.93578	.93794	.94028	.94234	.94458	.94716	.94890	.95080	.95304	.95478
0.20	.92172	.92274	.92384	.92544	.92746	.92988	.93224	.93454	.93694	.93902	.94160	.94360	.94568	.94784	.94950	.95188	.95342	.95500	.95710	.95870

Table D.2 (Continued)

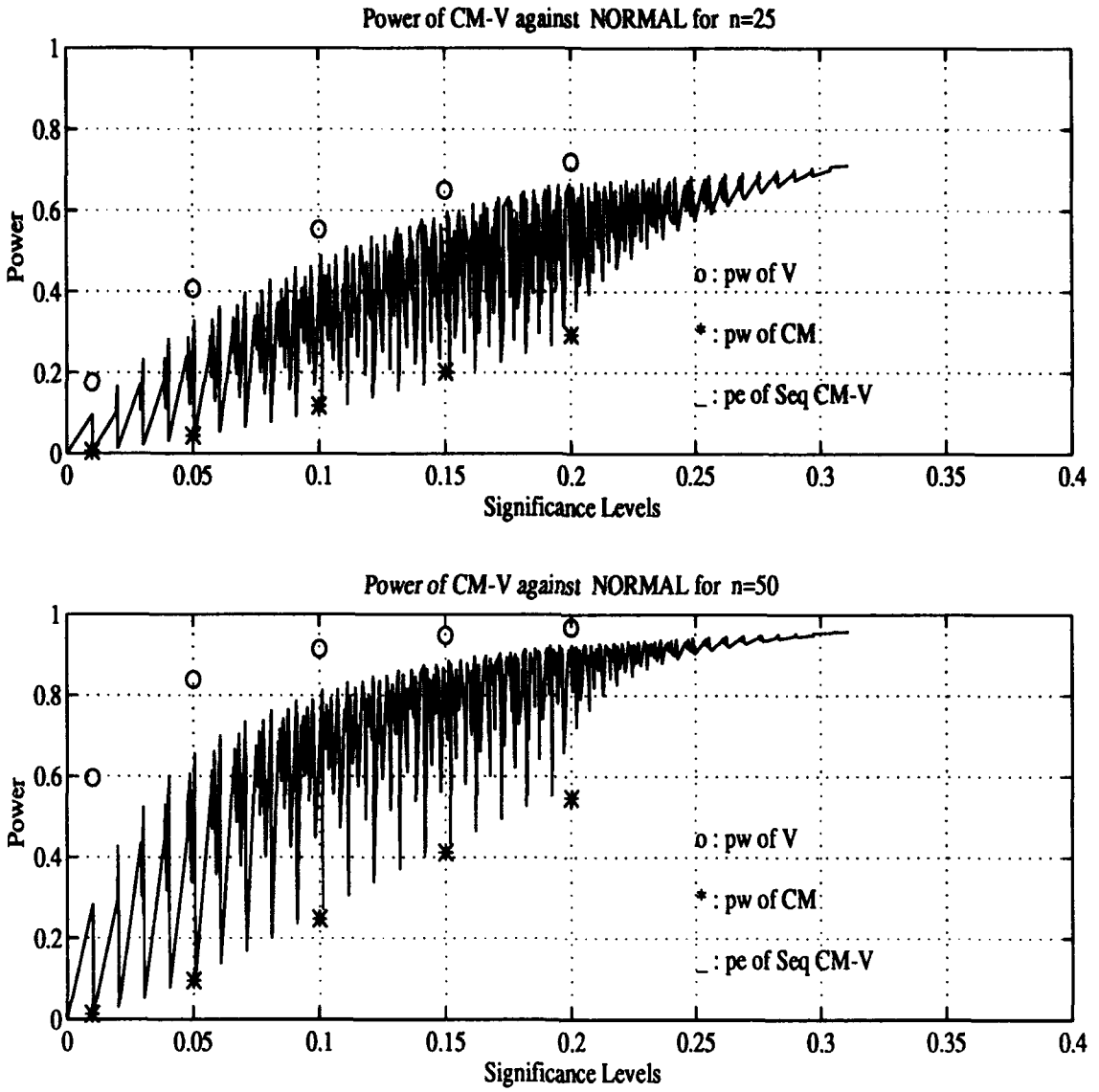

Figure D.1 Power comparisons of $CM - V$ against Normal

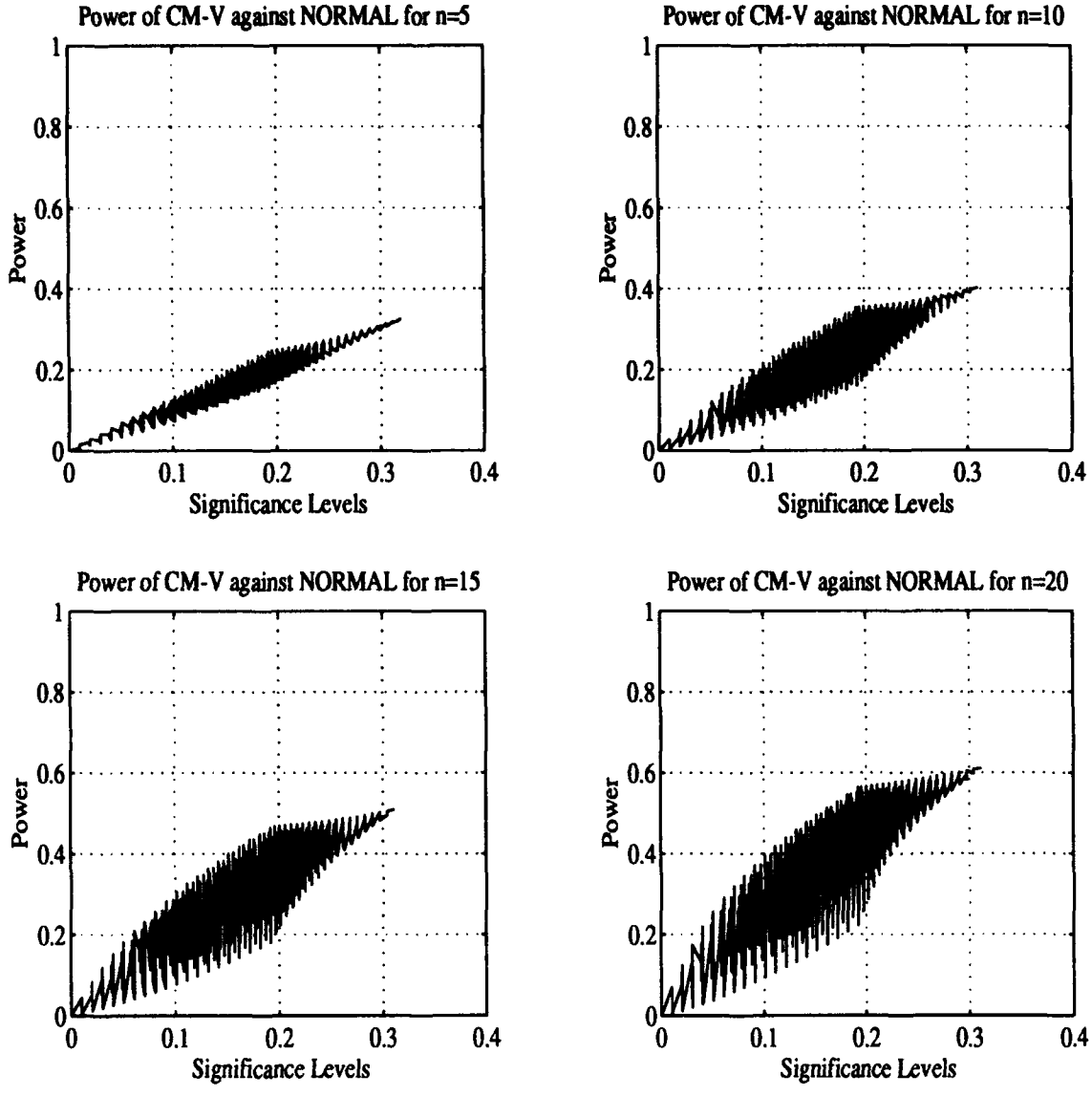

Figure D.1 (Continued)

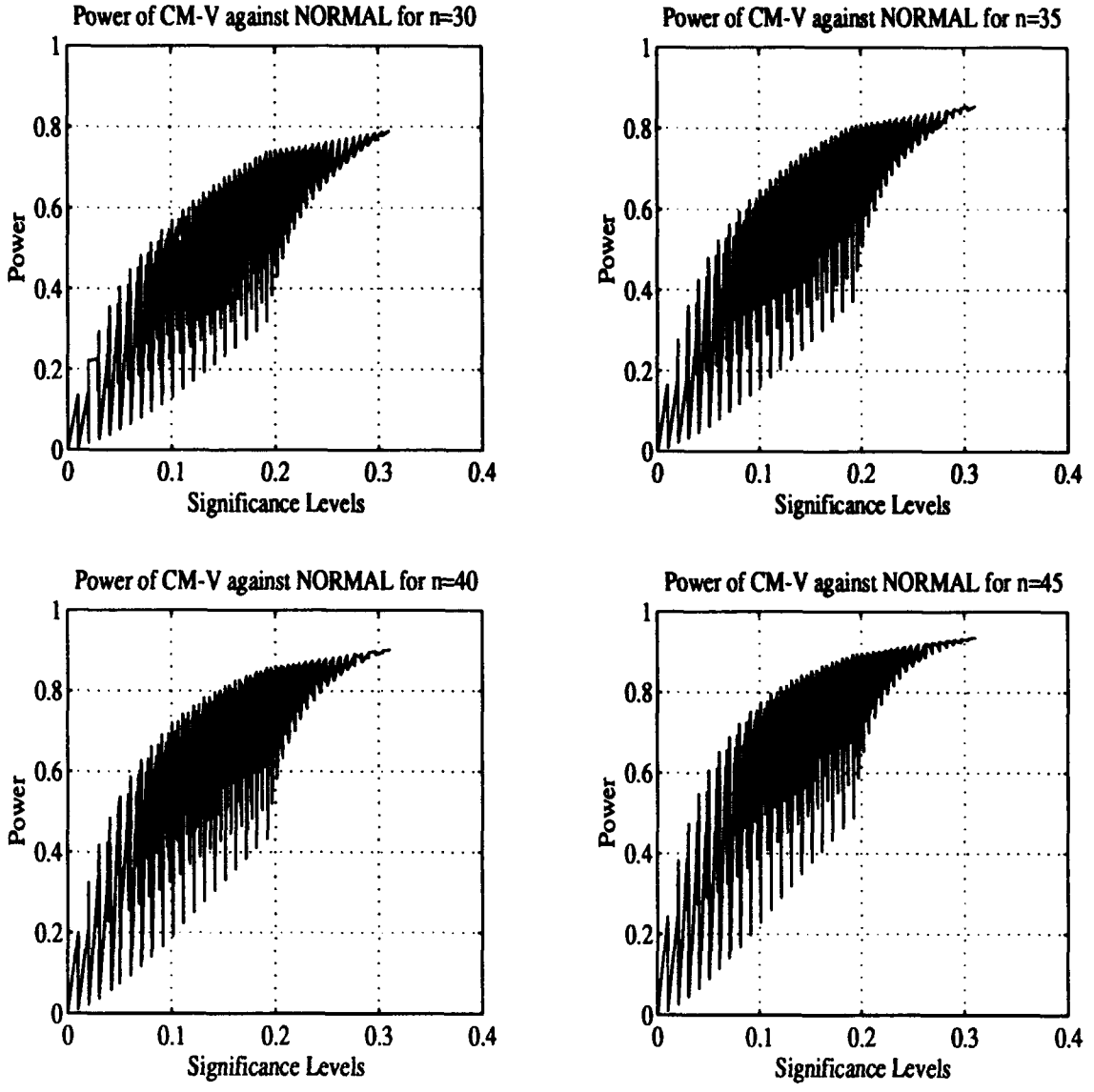

Figure D.1 (Continued)

Powers of $CM - V$ Sequential test against Exponential for $n = 5$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01698	.03188	.04746	.06174	.07726	.09236	.10748	.12228	.13696	.15138	.16574	.17960	.19370	.20726	.21960	.23246	.24660	.25958	.27288
0.02	.02020	.03584	.05004	.06480	.07858	.09348	.10790	.12264	.13684	.15116	.16514	.17918	.19270	.20636	.21960	.23158	.24428	.25794	.27070	.28380
0.03	.03830	.05300	.06644	.08058	.09386	.10838	.12240	.13672	.15050	.16452	.17822	.19172	.20502	.21828	.23116	.24284	.25526	.26856	.28090	.29382
0.04	.05564	.06962	.08258	.09604	.10878	.12302	.13672	.15054	.16396	.17768	.19096	.20420	.21718	.23016	.24272	.25416	.26640	.27940	.29150	.30412
0.05	.07184	.08492	.09728	.11014	.12240	.13630	.14952	.16302	.17604	.18938	.20238	.21518	.22794	.24072	.25312	.26446	.27652	.28922	.30100	.31344
0.06	.08992	.10214	.11382	.12600	.13776	.15114	.16398	.17714	.18980	.20288	.21552	.22798	.24048	.25290	.26500	.27606	.28778	.30008	.31142	.32382
0.07	.10518	.11646	.12776	.13934	.15062	.16358	.17610	.18888	.20124	.21412	.22650	.23868	.25096	.26306	.27502	.28586	.29736	.30948	.32006	.33258
0.08	.11970	.13040	.14112	.15214	.16296	.17556	.18756	.20002	.21218	.22480	.23690	.24888	.26080	.27272	.28446	.29506	.30632	.31816	.32912	.34068
0.09	.13592	.14598	.15604	.16662	.17706	.18912	.20074	.21282	.22460	.23686	.24870	.26044	.27208	.28370	.29526	.30570	.31670	.32824	.33904	.35034
0.10	.15096	.16034	.16982	.18002	.19002	.20162	.21302	.22486	.23630	.24834	.26000	.27126	.28274	.29416	.30546	.31564	.32624	.33756	.34812	.35920
0.11	.16790	.17644	.18526	.19486	.20436	.21574	.22660	.23808	.24924	.26090	.27218	.28314	.29426	.30536	.31636	.32632	.33670	.34762	.35784	.36866
0.12	.18492	.19256	.20084	.21008	.21888	.22960	.24008	.25122	.26206	.27324	.28422	.29494	.30580	.31664	.32730	.33698	.34720	.35784	.36772	.37836
0.13	.19990	.20698	.21476	.22352	.23198	.24226	.25238	.26314	.27368	.28460	.29532	.30586	.31650	.32718	.33764	.34708	.35700	.36740	.37690	.38716
0.14	.21460	.22114	.22830	.23672	.24484	.25474	.26448	.27482	.28522	.29588	.30634	.31670	.32710	.33750	.34768	.35678	.36640	.37686	.38586	.39590
0.15	.22806	.23400	.24076	.24878	.25662	.26620	.27562	.28550	.29562	.30612	.31630	.32644	.33650	.34672	.35664	.36550	.37488	.38474	.39368	.40364
0.16	.24246	.24790	.25428	.26186	.26934	.27860	.28752	.29714	.30692	.31708	.32696	.33688	.34656	.35668	.36646	.37512	.38416	.39372	.40270	.41232
0.17	.25742	.26238	.26820	.27534	.28240	.29140	.30002	.30940	.31898	.32892	.33838	.34800	.35748	.36750	.37684	.38512	.39386	.40312	.41164	.42134
0.18	.27212	.27666	.28188	.28840	.29508	.30370	.31196	.32098	.33010	.33982	.34910	.35832	.36762	.37726	.38652	.39448	.40296	.41196	.42058	.42984
0.19	.28598	.29012	.29500	.30116	.30750	.31576	.32374	.33248	.34118	.35064	.35970	.36870	.37776	.38720	.39618	.40396	.41218	.42102	.42940	.43834
0.20	.29974	.30342	.30798	.31378	.31980	.32766	.33534	.34380	.35224	.36140	.37030	.37912	.38792	.39724	.40600	.41356	.42156	.43022	.43846	.44722

Powers of $CM - V$ Sequential test against Exponential for $n = 10$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04544	.08612	.12246	.15534	.18606	.21340	.23928	.26518	.28822	.30968	.32994	.35264	.37376	.39182	.41092	.42654	.44256	.45794	.47368
0.02	.05408	.09388	.13082	.16580	.19390	.22288	.24834	.27258	.29688	.31846	.33878	.35768	.37898	.39846	.41556	.43374	.44846	.46358	.47818	.49312
0.03	.09672	.13202	.16554	.19610	.22404	.25122	.27526	.29826	.32120	.34166	.36098	.37888	.39918	.41792	.43384	.45108	.46520	.47986	.49374	.50782
0.04	.13408	.16528	.19576	.22384	.25020	.27606	.29888	.32068	.34264	.36204	.38046	.39744	.41698	.43478	.45008	.46652	.48004	.49400	.50736	.52076
0.05	.17106	.19888	.22662	.25288	.27738	.30146	.32308	.34368	.36444	.38290	.40036	.41666	.43536	.45268	.46730	.48296	.49592	.50940	.52220	.53508
0.06	.20310	.22810	.25364	.27826	.30110	.32366	.34426	.36388	.38342	.40110	.41788	.43366	.45176	.46872	.48286	.49768	.51028	.52326	.53588	.54810
0.07	.23452	.25672	.27988	.30288	.32432	.34570	.36520	.38368	.40218	.41898	.43514	.45012	.46738	.48376	.49734	.51162	.52368	.53600	.54800	.56018
0.08	.26196	.28208	.30344	.32494	.34530	.36544	.38366	.40116	.41918	.43520	.45064	.46522	.48166	.49750	.51046	.52412	.53582	.54770	.55922	.57100
0.09	.28666	.30480	.32458	.34478	.36406	.38304	.40026	.41674	.43368	.44916	.46398	.47818	.49412	.50960	.52188	.53524	.54632	.55778	.56888	.58032
0.10	.30882	.32532	.34346	.36238	.38076	.39866	.41514	.43112	.44780	.46210	.47636	.49004	.50544	.52036	.53256	.54556	.55644	.56780	.57822	.59034
0.11	.33094	.34602	.36272	.38026	.39746	.41446	.43006	.44542	.46114	.47510	.48888	.50198	.51692	.53136	.54322	.55596	.56652	.57734	.58784	.59838
0.12	.35260	.36652	.38180	.39804	.41432	.43022	.44510	.45954	.47468	.48810	.50142	.51406	.52848	.54228	.55384	.56624	.57656	.58716	.59728	.60768
0.13	.37324	.38586	.40006	.41522	.43074	.44578	.45978	.47350	.48790	.50098	.51372	.52602	.54010	.55344	.56458	.57646	.58638	.59662	.60632	.61684
0.14	.39254	.40424	.41736	.43160	.44604	.46030	.47364	.48684	.50044	.51316	.52536	.53726	.55070	.56360	.57428	.58582	.59542	.60538	.61470	.62466
0.15	.41184	.42264	.43486	.44816	.46160	.47506	.48794	.50058	.51352	.52580	.53754	.54906	.56208	.57456	.58494	.59604	.60530	.61488	.62378	.63330
0.16	.42890	.43878	.44988	.46248	.47540	.48824	.50050	.51262	.52600	.53686	.54824	.55942	.57214	.58414	.59420	.60498	.61382	.62316	.63162	.64092
0.17	.44724	.45630	.46668	.47844	.49086	.50292	.51466	.52606	.53774	.54912	.56000	.57090	.58318	.59474	.60456	.61508	.62360	.63264	.64068	.64962
0.18	.46416	.47256	.48200	.49298	.50486	.51614	.52746	.53844	.54952	.56046	.57086	.58130	.59316	.60434	.61394	.62400	.63218	.64094	.64894	.65770
0.19	.47850	.48642	.49504	.50544	.51676	.52758	.53862	.54910	.55982	.57030	.58042	.59056	.60214	.61300	.62236	.63216	.64010	.64870	.65640	.66488
0.20	.49438	.50148	.50960	.51938	.53008	.54026	.55066	.56064	.57074	.58078	.59064	.60046	.61164	.62222	.63126	.64078	.64858	.65688	.66422	.67246

Table D.3 Power tables of $CM - V$ against Exponential ditribution

Powers of $CM - V$ Sequential test against Exponential for n = 15

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.08800	.15370	.20566	.25068	.28848	.32800	.36018	.39068	.42114	.44906	.47526	.50092	.52372	.54384	.56352	.58358	.60226	.61874	.63586
0.02	.10466	.17802	.23366	.27850	.31782	.35118	.38584	.41482	.44198	.46904	.49438	.51780	.54040	.56130	.57958	.59728	.61508	.63184	.64630	.66186
0.03	.19032	.25148	.29956	.33890	.37434	.40368	.43482	.46116	.48598	.51036	.53328	.55462	.57494	.59404	.61054	.62674	.64306	.65806	.67102	.68526
0.04	.25360	.30644	.34890	.38442	.41662	.44282	.47122	.49512	.51800	.54040	.56142	.58114	.60028	.61782	.63340	.64850	.66356	.67736	.68944	.70380
0.05	.30822	.35428	.39160	.42356	.45284	.47688	.50272	.52470	.54602	.56670	.58602	.60408	.62190	.63822	.65290	.66696	.68102	.69388	.70550	.71770
0.06	.35312	.39360	.42748	.45678	.48328	.50550	.52912	.54942	.56890	.58834	.60616	.62338	.64016	.65544	.66910	.68224	.69536	.70730	.71836	.73000
0.07	.39610	.43150	.46136	.48822	.51240	.53242	.55444	.57318	.59126	.60944	.62610	.64196	.65762	.67216	.68498	.69728	.70970	.72098	.73120	.74216
0.08	.42940	.46172	.48882	.51354	.53580	.55448	.57490	.59232	.60938	.62644	.64234	.65728	.67218	.68578	.69772	.70918	.72098	.73172	.74144	.75198
0.09	.46070	.48950	.51450	.53690	.55742	.57454	.59350	.60972	.62576	.64192	.65686	.67098	.68498	.69784	.70918	.72016	.73130	.74150	.75064	.76068
0.10	.49130	.51704	.54006	.56066	.57928	.59500	.61264	.62792	.64296	.65810	.67222	.68548	.69882	.71096	.72166	.73228	.74276	.75240	.76120	.77062
0.11	.51716	.54076	.56140	.58016	.59736	.61182	.62834	.64272	.65694	.67088	.68424	.69694	.70966	.72106	.73136	.74172	.75182	.76110	.76972	.77876
0.12	.54088	.56232	.58114	.59842	.61464	.62832	.64358	.65710	.67050	.68368	.69664	.70878	.72074	.73168	.74158	.75148	.76116	.76990	.77804	.78680
0.13	.56206	.58160	.59894	.61506	.63036	.64326	.65768	.67052	.68344	.69596	.70840	.71982	.73110	.74166	.75130	.76054	.76976	.77820	.78602	.79446
0.14	.58170	.59966	.61536	.63058	.64492	.65678	.67034	.68254	.69478	.70682	.71866	.72944	.74022	.75048	.75974	.76882	.77752	.78570	.79318	.80140
0.15	.60108	.61740	.63200	.64622	.65972	.67086	.68370	.69512	.70682	.71814	.72952	.73990	.75028	.76004	.76882	.77724	.78564	.79340	.80066	.80854
0.16	.62002	.63466	.64812	.66138	.67384	.68432	.69644	.70706	.71806	.72856	.73966	.74956	.75932	.76862	.77716	.78528	.79330	.80068	.80780	.81512
0.17	.63660	.64994	.66256	.67490	.68636	.69620	.70786	.71800	.72858	.73872	.74894	.75838	.76766	.77650	.78456	.79244	.80016	.80740	.81406	.82130
0.18	.65100	.66318	.67474	.68634	.69726	.70664	.71754	.72724	.73738	.74710	.75670	.76574	.77466	.78324	.79100	.79862	.80604	.81302	.81934	.82636
0.19	.66618	.67738	.68792	.69876	.70872	.71758	.72788	.73728	.74694	.75614	.76526	.77398	.78234	.79056	.79812	.80550	.81252	.81920	.82532	.83226
0.20	.68068	.69100	.70060	.71070	.72004	.72844	.73818	.74718	.75642	.76520	.77386	.78220	.79016	.79792	.80524	.81210	.81906	.82562	.83144	.83812

Powers of $CM - V$ Sequential test against Exponential for n = 20

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.12672	.22082	.30210	.36024	.40528	.45302	.49460	.53024	.56066	.59222	.61694	.64226	.66422	.68252	.70166	.71940	.73756	.75366	.76984
0.02	.17120	.26916	.34388	.40872	.45598	.49330	.53522	.56764	.59722	.62290	.64958	.67040	.69104	.70928	.72422	.74078	.75564	.77110	.78482	.79822
0.03	.28576	.36586	.42738	.48210	.52190	.55356	.58734	.61726	.64258	.66462	.68792	.70630	.72446	.74018	.75288	.76726	.78046	.79422	.80612	.81786
0.04	.36858	.43640	.48834	.53556	.56978	.59778	.62764	.65406	.67628	.69594	.71664	.73282	.74914	.76306	.77454	.78758	.79970	.81164	.82238	.83304
0.05	.43512	.49324	.53774	.57896	.60884	.63370	.66018	.68386	.70332	.72078	.73920	.75376	.76882	.78138	.79162	.80334	.81484	.82566	.83528	.84490
0.06	.48836	.53874	.57808	.61512	.64194	.66444	.68824	.70940	.72696	.74274	.75948	.77230	.78572	.79738	.80676	.81754	.82782	.83812	.84672	.85530
0.07	.53254	.57734	.61212	.64528	.66964	.68996	.71158	.73108	.74708	.76148	.77648	.78818	.80062	.81130	.82010	.82994	.83920	.84882	.85666	.86464
0.08	.57060	.61030	.64142	.67120	.69344	.71192	.73154	.74926	.76404	.77708	.79102	.80184	.81332	.82334	.83164	.84068	.84900	.85772	.86494	.87254
0.09	.59884	.63500	.66360	.69096	.71136	.72834	.74668	.76362	.77736	.78940	.80240	.81264	.82328	.83258	.84030	.84894	.85668	.86478	.87150	.87864
0.10	.62774	.65992	.68866	.71028	.72884	.74458	.76166	.77718	.79020	.80182	.81338	.82286	.83280	.84164	.84884	.85700	.86432	.87202	.87840	.88512
0.11	.65258	.68138	.70500	.72760	.74490	.75948	.77542	.78968	.80162	.81242	.82352	.83228	.84168	.84990	.85652	.86430	.87122	.87852	.88442	.89072
0.12	.67544	.70214	.72390	.74492	.76062	.77420	.78856	.80204	.81312	.82312	.83338	.84166	.85022	.85798	.86430	.87152	.87758	.88492	.89050	.89650
0.13	.69636	.72000	.73976	.75910	.77364	.78640	.80002	.81248	.82282	.83208	.84166	.84964	.85768	.86492	.87098	.87782	.88390	.89062	.89598	.90162
0.14	.71524	.73674	.75474	.77274	.78620	.79802	.81066	.82220	.83180	.84052	.84954	.85688	.86456	.87150	.87772	.88372	.88942	.89578	.90068	.90618
0.15	.73230	.75216	.76850	.78498	.79720	.80808	.82004	.83100	.84002	.84828	.85660	.86350	.87068	.87724	.88262	.88876	.89420	.90030	.90512	.91016
0.16	.74862	.76692	.78206	.79714	.80882	.81880	.82988	.84022	.84872	.85644	.86420	.87060	.87720	.88320	.88836	.89398	.89914	.90482	.90934	.91412
0.17	.76388	.78050	.79428	.80806	.81882	.82830	.83840	.84818	.85600	.86322	.87058	.87674	.88306	.88884	.89368	.89902	.90392	.90922	.91360	.91794
0.18	.77808	.79160	.80412	.81718	.82716	.83620	.84600	.85468	.86212	.86908	.87614	.88216	.88832	.89378	.89846	.90356	.90826	.91334	.91740	.92164
0.19	.78910	.80364	.81514	.82722	.83634	.84482	.85390	.86228	.86908	.87564	.88244	.88810	.89388	.89894	.90332	.90814	.91260	.91736	.92132	.92512
0.20	.80120	.81468	.82536	.83656	.84484	.85260	.86096	.86896	.87538	.88154	.88796	.89334	.89880	.90370	.90790	.91244	.91674	.92124	.92496	.92882

Table D.3 (Continued)

Powers of $CM - V$ Sequential test against Exponential for $n = 25$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.16606	.28156	.36600	.43638	.49260	.54258	.58382	.61876	.65440	.68162	.70942	.73364	.75498	.77192	.78896	.80716	.82362	.83884	.85226
0.02	.23744	.35526	.43976	.50310	.55652	.59980	.63800	.66978	.69624	.72302	.74360	.76546	.78396	.80134	.81498	.82852	.84296	.85554	.86722	.87752
0.03	.37922	.47122	.53834	.58752	.62994	.66496	.69552	.72176	.74348	.76620	.78288	.80108	.81656	.83108	.84242	.85406	.86602	.87636	.88610	.89486
0.04	.48350	.55582	.61002	.65068	.68580	.71394	.73898	.76062	.77928	.79792	.81208	.82776	.84084	.85348	.86296	.87256	.88248	.89110	.89952	.90696
0.05	.55216	.61268	.65960	.69454	.72446	.74798	.76910	.78854	.80476	.82070	.83314	.84720	.85882	.86980	.87826	.88704	.89556	.90316	.91034	.91686
0.06	.60470	.65742	.69756	.72764	.75376	.77376	.79236	.80958	.82404	.83810	.84922	.86156	.87162	.88168	.88956	.89730	.90486	.91174	.91790	.92400
0.07	.64870	.69532	.73034	.75606	.77956	.79752	.81406	.82898	.84132	.85398	.86380	.87462	.88308	.89226	.89910	.90606	.91272	.91890	.92448	.92993
0.08	.68748	.72790	.75906	.78188	.80212	.81812	.83250	.84578	.85674	.86776	.87660	.88636	.89392	.90174	.90816	.91426	.92004	.92544	.93062	.93556
0.09	.71852	.75444	.78144	.80176	.81978	.83376	.84662	.85848	.86846	.87852	.88652	.89524	.90204	.90928	.91528	.92100	.92620	.93128	.93594	.94046
0.10	.74556	.77792	.80158	.81964	.83530	.84766	.85920	.86958	.87880	.88796	.89518	.90298	.90904	.91564	.92094	.92606	.93096	.93556	.93994	.94400
0.11	.77136	.79924	.82042	.83672	.85040	.86130	.87146	.88038	.88866	.89728	.90378	.91100	.91664	.92258	.92740	.93214	.93654	.94074	.94480	.94862
0.12	.79666	.81442	.83306	.84774	.86032	.87052	.87998	.88814	.89592	.90394	.90972	.91642	.92170	.92718	.93178	.93640	.94042	.94428	.94792	.95180
0.13	.80592	.82812	.84492	.85828	.86966	.87902	.88784	.89526	.90264	.90982	.91522	.92132	.92648	.93144	.93566	.94008	.94398	.94754	.95104	.95462
0.14	.82128	.84126	.85664	.86900	.87960	.88812	.89636	.90312	.90960	.91622	.92116	.92670	.93126	.93588	.93998	.94408	.94770	.95096	.95426	.95750
0.15	.83520	.85342	.86770	.87912	.88884	.89666	.90428	.91040	.91634	.92218	.92668	.93196	.93604	.94042	.94440	.94808	.95154	.95458	.95766	.96046
0.16	.84928	.86584	.87866	.88894	.89808	.90536	.91210	.91788	.92312	.92854	.93274	.93768	.94142	.94518	.94882	.95212	.95514	.95790	.96082	.96358
0.17	.86122	.87608	.88766	.89698	.90536	.91214	.91838	.92382	.92874	.93374	.93768	.94218	.94554	.94894	.95234	.95552	.95830	.96088	.96360	.96620
0.18	.87036	.88428	.89498	.90380	.91148	.91796	.92370	.92878	.93324	.93786	.94148	.94576	.94896	.95210	.95530	.95826	.96086	.96322	.96590	.96832
0.19	.87964	.89224	.90226	.91022	.91736	.92340	.92854	.93310	.93718	.94150	.94480	.94884	.95180	.95474	.95780	.96066	.96316	.96544	.96790	.97004
0.20	.88846	.90028	.90904	.91628	.92300	.92862	.93318	.93734	.94128	.94538	.94836	.95218	.95492	.95766	.96036	.96288	.96522	.96734	.96972	.97186

Powers of $CM - V$ Sequential test against Exponential for $n = 30$

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.21990	.36242	.45634	.53092	.58586	.63972	.67906	.71514	.74648	.77630	.79840	.81958	.83822	.85466	.86886	.88070	.89184	.90280	.91186
0.02	.32428	.46706	.55960	.62084	.67088	.70810	.74506	.77116	.79660	.81900	.83950	.85500	.86924	.88260	.89414	.90360	.91230	.92014	.92830	.93418
0.03	.47436	.58212	.65216	.69884	.73842	.76726	.79684	.81724	.83720	.85566	.87180	.88346	.89416	.90422	.91364	.92118	.92800	.93384	.94050	.94522
0.04	.58098	.66476	.71870	.75604	.78734	.80980	.83360	.85018	.86572	.88034	.89332	.90298	.91184	.91984	.92736	.93328	.93890	.94400	.94954	.95330
0.05	.65502	.72150	.76570	.79570	.82172	.84000	.85978	.87348	.88652	.89850	.90910	.91726	.92476	.93158	.93788	.94280	.94736	.95160	.95642	.95946
0.06	.70790	.76322	.80004	.82432	.84652	.86184	.87880	.89068	.90204	.91218	.92144	.92802	.93410	.93986	.94518	.94918	.95296	.95676	.96112	.96406
0.07	.75074	.79682	.82720	.84810	.86652	.87908	.89390	.90400	.91426	.92306	.93090	.93642	.94188	.94710	.95172	.95542	.95870	.96216	.96598	.96856
0.08	.78172	.82112	.84752	.86572	.88182	.89264	.90566	.91444	.92384	.93164	.93884	.94364	.94842	.95312	.95724	.96052	.96324	.96640	.96956	.97168
0.09	.80886	.84288	.86528	.88124	.89524	.90426	.91584	.92326	.93174	.93876	.94508	.94910	.95348	.95756	.96116	.96416	.96662	.96946	.97234	.97432
0.10	.83320	.86258	.88210	.89572	.90806	.91608	.92616	.93272	.94038	.94634	.95154	.95504	.95900	.96234	.96518	.96762	.96972	.97236	.97498	.97680
0.11	.84982	.87542	.89290	.90472	.91592	.92342	.93284	.93882	.94594	.95142	.95614	.95904	.96266	.96570	.96844	.97074	.97270	.97508	.97748	.97904
0.12	.86552	.88856	.90424	.91438	.92414	.93084	.93908	.94420	.95080	.95592	.96022	.96274	.96612	.96894	.97118	.97328	.97500	.97722	.97934	.98086
0.13	.87608	.89748	.91190	.92106	.93010	.93620	.94386	.94818	.95420	.95876	.96304	.96534	.96828	.97080	.97304	.97510	.97674	.97886	.98088	.98228
0.14	.88822	.90752	.92062	.92902	.93704	.94248	.94972	.95354	.95896	.96288	.96662	.96866	.97116	.97318	.97528	.97712	.97850	.98050	.98238	.98382
0.15	.89932	.91610	.92762	.93528	.94246	.94734	.95392	.95720	.96194	.96552	.96888	.97074	.97310	.97488	.97692	.97840	.97994	.98172	.98348	.98460
0.16	.90876	.92374	.93374	.94072	.94742	.95204	.95768	.96076	.96532	.96832	.97146	.97312	.97532	.97692	.97882	.98034	.98150	.98294	.98462	.98572
0.17	.91642	.92996	.93892	.94512	.95126	.95550	.96048	.96332	.96752	.97028	.97330	.97486	.97614	.97810	.97944	.98094	.98220	.98312	.98440	.98556
0.18	.92338	.93584	.94400	.94938	.95506	.95880	.96338	.96588	.96972	.97212	.97488	.97614	.97810	.97944	.98094	.98220	.98312	.98440	.98556	.98646
0.19	.93004	.94112	.94874	.95382	.95922	.96264	.96668	.96906	.97246	.97472	.97736	.97834	.98020	.98152	.98284	.98408	.98496	.98606	.98764	.98844
0.20	.93720	.94722	.95386	.95860	.96330	.96644	.97004	.97228	.97524	.97706	.97912	.98008	.98174	.98272	.98388	.98504	.98590	.98678	.98832	.98898

Table D.3 (Continued)

Powers of $CM - V$ Sequential test against Exponential for $n = 35$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.26724	.43476	.53292	.61052	.67038	.72136	.75996	.79098	.81880	.84142	.86060	.87740	.89318	.90690	.91698	.92568	.93432	.94300	.94914
0.02	.37620	.53814	.63866	.69894	.74686	.78402	.81650	.84130	.86160	.87930	.89320	.90590	.91660	.92668	.93568	.94208	.94764	.95350	.95972	.96420
0.03	.56078	.67272	.74220	.78410	.81770	.84368	.86676	.88430	.89982	.91228	.92218	.93110	.93850	.94548	.95174	.95652	.96048	.96490	.96930	.97250
0.04	.66882	.74890	.80012	.83202	.85846	.87930	.89686	.91000	.92208	.93206	.93952	.94666	.95176	.95690	.96206	.96606	.96882	.97268	.97628	.97890
0.05	.73270	.79602	.83708	.86304	.88458	.90114	.91554	.92656	.93660	.94460	.95110	.95720	.96140	.96582	.96974	.97306	.97526	.97848	.98124	.98334
0.06	.78522	.83576	.86868	.88896	.90642	.92036	.93192	.94052	.94880	.95496	.95970	.96434	.96794	.97154	.97472	.97750	.97912	.98168	.98396	.98586
0.07	.81758	.86038	.88796	.90502	.91932	.93090	.94050	.94794	.95494	.96018	.96402	.96820	.97134	.97460	.97712	.97950	.98106	.98314	.98520	.98692
0.08	.84720	.88328	.90644	.92042	.93268	.94210	.95008	.95598	.96162	.96604	.96940	.97296	.97574	.97862	.98074	.98274	.98412	.98594	.98772	.98934
0.09	.87096	.90104	.92124	.93256	.94268	.95092	.95802	.96298	.96730	.97098	.97390	.97688	.97900	.98134	.98332	.98504	.98614	.98788	.98948	.99070
0.10	.88916	.91444	.93144	.94088	.94966	.95694	.96268	.96656	.97036	.97360	.97632	.97916	.98098	.98286	.98466	.98624	.98722	.98890	.99038	.99156
0.11	.90358	.92532	.93968	.94804	.95532	.96204	.96712	.97062	.97398	.97662	.97900	.98134	.98292	.98474	.98622	.98774	.98860	.99002	.99128	.99240
0.12	.91440	.93338	.94622	.95382	.96054	.96650	.97098	.97428	.97730	.97950	.98180	.98410	.98540	.98676	.98810	.98946	.99032	.99142	.99260	.99348
0.13	.92640	.94188	.95288	.95958	.96540	.97066	.97494	.97772	.98034	.98226	.98422	.98638	.98736	.98868	.98998	.99132	.99178	.99280	.99362	.99442
0.14	.93716	.95028	.95942	.96554	.97022	.97442	.97844	.98064	.98304	.98458	.98632	.98820	.98896	.99006	.99130	.99242	.99282	.99382	.99452	.99514
0.15	.94440	.95614	.96440	.96974	.97388	.97734	.98088	.98278	.98476	.98610	.98758	.98924	.98994	.99096	.99212	.99322	.99356	.99440	.99510	.99564
0.16	.94912	.95986	.96752	.97226	.97586	.97906	.98246	.98416	.98600	.98730	.98864	.99024	.99088	.99178	.99288	.99392	.99426	.99508	.99572	.99624
0.17	.95562	.96452	.97128	.97560	.97848	.98136	.98458	.98610	.98790	.98906	.99022	.99152	.99208	.99292	.99388	.99458	.99488	.99556	.99618	.99670
0.18	.95936	.96726	.97376	.97770	.98036	.98298	.98586	.98736	.98898	.98986	.99092	.99208	.99264	.99332	.99414	.99478	.99508	.99576	.99638	.99690
0.19	.96510	.97188	.97758	.98066	.98306	.98530	.98784	.98918	.99026	.99104	.99208	.99318	.99366	.99430	.99488	.99550	.99578	.99642	.99692	.99718
0.20	.96950	.97528	.98014	.98258	.98468	.98676	.98920	.99050	.99150	.99220	.99314	.99416	.99460	.99524	.99576	.99620	.99642	.99688	.99728	.99754

Powers of $CM - V$ Sequential test against Exponential for $n = 40$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.31334	.47790	.59730	.68916	.73052	.77852	.81644	.84642	.87120	.89018	.90800	.92094	.93350	.94286	.95162	.96018	.96604	.97028	.97334
0.02	.45644	.62024	.70674	.77300	.82426	.84776	.87452	.89758	.91312	.92608	.93652	.94674	.95476	.96168	.96678	.97170	.97628	.97944	.98120	.98310
0.03	.63488	.74456	.80218	.84774	.88244	.89764	.91498	.93060	.94124	.94866	.95566	.96198	.96790	.97242	.97568	.97902	.98218	.98452	.98574	.98710
0.04	.74260	.81788	.85856	.89138	.91544	.92566	.93774	.94958	.95644	.96122	.96684	.97148	.97542	.97948	.98214	.98402	.98644	.98812	.98898	.98998
0.05	.81134	.86644	.89436	.91950	.93702	.94428	.95360	.96190	.96710	.97066	.97520	.97868	.98176	.98484	.98666	.98780	.98970	.99100	.99168	.99258
0.06	.85512	.89782	.91750	.93658	.95054	.95630	.96294	.96908	.97366	.97602	.97992	.98274	.98540	.98778	.98894	.98986	.99148	.99262	.99320	.99394
0.07	.89300	.92374	.93810	.95112	.96218	.96696	.97202	.97646	.98018	.98162	.98466	.98708	.98888	.99068	.99154	.99226	.99340	.99416	.99462	.99516
0.08	.91762	.94150	.95208	.96124	.96978	.97328	.97700	.98074	.98348	.98482	.98738	.98946	.99080	.99250	.99302	.99364	.99450	.99514	.99548	.99592
0.09	.93070	.95048	.95862	.96668	.97380	.97692	.98006	.98312	.98520	.98642	.98888	.99060	.99186	.99330	.99382	.99428	.99514	.99570	.99604	.99634
0.10	.94320	.95936	.96590	.97218	.97810	.98078	.98342	.98622	.98814	.98896	.99090	.99220	.99322	.99436	.99476	.99522	.99578	.99622	.99656	.99684
0.11	.95266	.96576	.97118	.97670	.98114	.98356	.98596	.98830	.98984	.99058	.99250	.99342	.99430	.99534	.99558	.99590	.99634	.99674	.99700	.99726
0.12	.96122	.97194	.97642	.98132	.98454	.98638	.98802	.99016	.99154	.99214	.99376	.99464	.99520	.99606	.99628	.99660	.99698	.99730	.99748	.99772
0.13	.96792	.97640	.97960	.98386	.98652	.98794	.98928	.99132	.99256	.99316	.99470	.99548	.99604	.99678	.99690	.99716	.99740	.99762	.99776	.99800
0.14	.97130	.97894	.98182	.98532	.98760	.98900	.99012	.99208	.99310	.99364	.99508	.99584	.99638	.99700	.99708	.99734	.99750	.99770	.99784	.99808
0.15	.97496	.98154	.98414	.98714	.98902	.99016	.99128	.99316	.99416	.99466	.99572	.99640	.99688	.99734	.99740	.99762	.99778	.99798	.99812	.99836
0.16	.97722	.98294	.98544	.98834	.98968	.99082	.99188	.99366	.99462	.99496	.99602	.99666	.99714	.99760	.99766	.99784	.99796	.99816	.99828	.99852
0.17	.98060	.98526	.98742	.99000	.99100	.99200	.99296	.99452	.99520	.99554	.99658	.99712	.99750	.99796	.99802	.99820	.99826	.99838	.99838	.99860
0.18	.98382	.98760	.98932	.99136	.99226	.99322	.99400	.99540	.99582	.99616	.99720	.99764	.99780	.99802	.99808	.99826	.99830	.99842	.99842	.99862
0.19	.98518	.98876	.99042	.99232	.99322	.99404	.99456	.99598	.99640	.99674	.99768	.99812	.99826	.99838	.99842	.99860	.99864	.99876	.99876	.99888
0.20	.98802	.99110	.99238	.99370	.99442	.99512	.99560	.99684	.99726	.99752	.99796	.99840	.99852	.99860	.99864	.99882	.99886	.99898	.99898	.99906

Table D.3 (Continued)

Powers of $CM - V$ Sequential test against Exponential for $n = 45$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.35228	.54424	.66686	.73956	.79558	.83612	.86912	.89120	.91112	.92794	.94014	.94912	.95854	.96420	.97112	.97558	.97990	.98280	.98510
0.02	.53606	.69608	.78592	.84440	.87830	.90554	.92254	.93808	.94684	.95764	.96552	.97116	.97654	.98080	.98324	.98628	.98832	.99020	.99110	.99234
0.03	.71118	.81046	.86298	.89988	.92068	.93874	.94894	.95972	.96592	.97306	.97790	.98146	.98492	.98810	.98998	.99182	.99316	.99424	.99472	.99544
0.04	.80146	.86900	.90480	.92990	.94512	.95896	.96842	.97276	.97748	.98142	.98496	.98744	.98976	.99160	.99312	.99428	.99502	.99584	.99598	.99660
0.05	.86396	.90990	.93546	.95102	.96120	.97152	.97612	.98134	.98452	.98720	.98954	.99138	.99306	.99448	.99580	.99632	.99694	.99744	.99778	.99810
0.06	.90242	.93616	.95354	.96458	.97146	.97898	.98228	.98628	.98830	.99068	.99258	.99408	.99538	.99626	.99710	.99752	.99804	.99822	.99846	.99862
0.07	.92858	.95314	.96606	.97428	.97900	.98406	.98640	.98928	.99076	.99284	.99472	.99588	.99690	.99754	.99812	.99842	.99872	.99878	.99902	.99912
0.08	.94010	.96172	.97250	.97840	.98278	.98676	.98864	.99112	.99248	.99410	.99574	.99654	.99756	.99790	.99832	.99850	.99878	.99884	.99906	.99916
0.09	.95326	.97018	.97908	.98390	.98710	.98998	.99124	.99292	.99392	.99506	.99650	.99708	.99798	.99822	.99854	.99872	.99900	.99906	.99928	.99938
0.10	.96108	.97534	.98204	.98620	.98872	.99146	.99208	.99376	.99456	.99568	.99704	.99752	.99830	.99854	.99886	.99904	.99912	.99918	.99940	.99950
0.11	.96944	.98094	.98606	.98902	.99066	.99314	.99348	.99516	.99590	.99686	.99772	.99792	.99844	.99868	.99900	.99916	.99922	.99928	.99950	.99960
0.12	.97612	.98532	.98868	.99136	.99282	.99474	.99508	.99586	.99656	.99750	.99816	.99828	.99868	.99892	.99924	.99942	.99946	.99952	.99952	.99962
0.13	.98546	.99050	.99280	.99414	.99518	.99666	.99688	.99744	.99802	.99846	.99886	.99892	.99932	.99940	.99940	.99952	.99956	.99962	.99962	.99962
0.14	.98882	.99234	.99400	.99504	.99590	.99700	.99722	.99776	.99826	.99864	.99900	.99906	.99938	.99946	.99946	.99958	.99958	.99964	.99964	.99964
0.15	.98962	.99298	.99464	.99550	.99632	.99724	.99746	.99786	.99836	.99874	.99900	.99906	.99938	.99946	.99946	.99958	.99958	.99964	.99964	.99964
0.16	.99048	.99364	.99514	.99584	.99658	.99750	.99762	.99802	.99852	.99876	.99902	.99908	.99938	.99946	.99946	.99958	.99958	.99964	.99964	.99964
0.17	.99298	.99552	.99632	.99680	.99750	.99812	.99814	.99846	.99892	.99912	.99938	.99940	.99970	.99976	.99976	.99980	.99980	.99980	.99980	.99980
0.18	.99366	.99588	.99656	.99698	.99758	.99814	.99816	.99848	.99894	.99914	.99940	.99942	.99972	.99976	.99976	.99980	.99980	.99980	.99980	.99980
0.19	.99520	.99680	.99734	.99774	.99820	.99862	.99862	.99870	.99916	.99936	.99952	.99954	.99980	.99984	.99984	.99986	.99986	.99986	.99986	.99986
0.20	.99660	.99754	.99804	.99828	.99860	.99884	.99884	.99886	.99926	.99946	.99952	.99954	.99980	.99984	.99984	.99986	.99986	.99986	.99986	.99986

Powers of $CM - V$ Sequential test against Exponential for $n = 50$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.39778	.59436	.70218	.78316	.83824	.87824	.90340	.92834	.94062	.95386	.96260	.96956	.97556	.97884	.98378	.98630	.98904	.99048	.99204
0.02	.58836	.74960	.83002	.87466	.90396	.92744	.94592	.95676	.96890	.97474	.98006	.98386	.98666	.98934	.99116	.99306	.99416	.99502	.99546	.99606
0.03	.76538	.85850	.90592	.92878	.94616	.95770	.96644	.97300	.98106	.98462	.98866	.99084	.99202	.99366	.99492	.99620	.99682	.99696	.99724	.99728
0.04	.85416	.91154	.94278	.95750	.96840	.97644	.98070	.98470	.98786	.99018	.99236	.99406	.99490	.99596	.99644	.99698	.99728	.99742	.99764	.99768
0.05	.89878	.93848	.96094	.96974	.97786	.98316	.98576	.98918	.99066	.99226	.99398	.99548	.99596	.99698	.99722	.99776	.99806	.99820	.99842	.99844
0.06	.92152	.95154	.97002	.97664	.98254	.98594	.98770	.99060	.99180	.99264	.99426	.99552	.99600	.99702	.99726	.99780	.99810	.99822	.99844	.99846
0.07	.93536	.95992	.97536	.98024	.98530	.98834	.98946	.99152	.99252	.99318	.99454	.99566	.99612	.99714	.99758	.99790	.99810	.99822	.99844	.99846
0.08	.94940	.96724	.97956	.98342	.98732	.98984	.99076	.99258	.99350	.99414	.99536	.99648	.99692	.99752	.99776	.99816	.99834	.99846	.99868	.99870
0.09	.95964	.97348	.98416	.98738	.99000	.99216	.99298	.99446	.99538	.99560	.99646	.99748	.99776	.99828	.99828	.99828	.99846	.99858	.99870	.99870
0.10	.96444	.97716	.98672	.98944	.99152	.99346	.99422	.99550	.99638	.99656	.99728	.99830	.99858	.99862	.99862	.99862	.99862	.99864	.99874	.99874
0.11	.98176	.98878	.99350	.99438	.99554	.99664	.99668	.99758	.99796	.99808	.99828	.99886	.99914	.99918	.99918	.99918	.99918	.99920	.99930	.99930
0.12	.98250	.98942	.99398	.99486	.99598	.99680	.99684	.99774	.99812	.99824	.99834	.99892	.99920	.99924	.99924	.99924	.99924	.99926	.99936	.99936
0.13	.98570	.99184	.99578	.99626	.99722	.99792	.99796	.99874	.99898	.99902	.99902	.99910	.99938	.99942	.99942	.99942	.99942	.99942	.99952	.99952
0.14	.99044	.99518	.99790	.99820	.99884	.99934	.99934	.99944	.99968	.99968	.99968	.99970	.99970	.99974	.99974	.99974	.99974	.99974	.99984	.99984
0.15	.99044	.99518	.99790	.99820	.99884	.99934	.99934	.99944	.99968	.99968	.99968	.99970	.99974	.99974	.99974	.99974	.99974	.99974	.99984	.99984
0.16	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99978	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992
0.17	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99978	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992
0.18	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99978	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992
0.19	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99978	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992
0.20	.99318	.99640	.99886	.99890	.99930	.99960	.99960	.99970	.99976	.99976	.99976	.99978	.99978	.99982	.99982	.99982	.99982	.99982	.99992	.99992

Table D.3 (Continued)

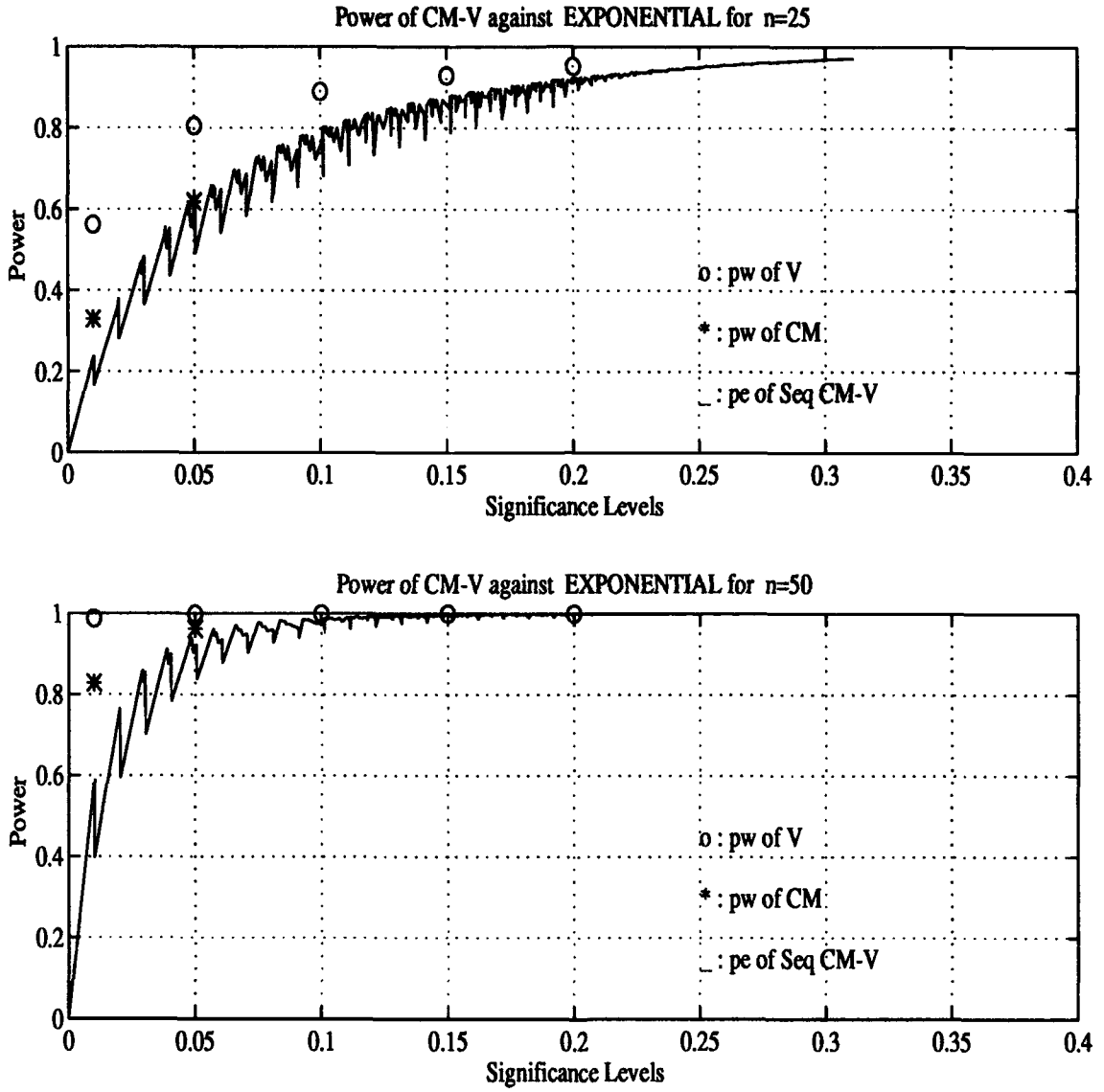

Figure D.2 Power comparisons of $CM - V$ against Exponential

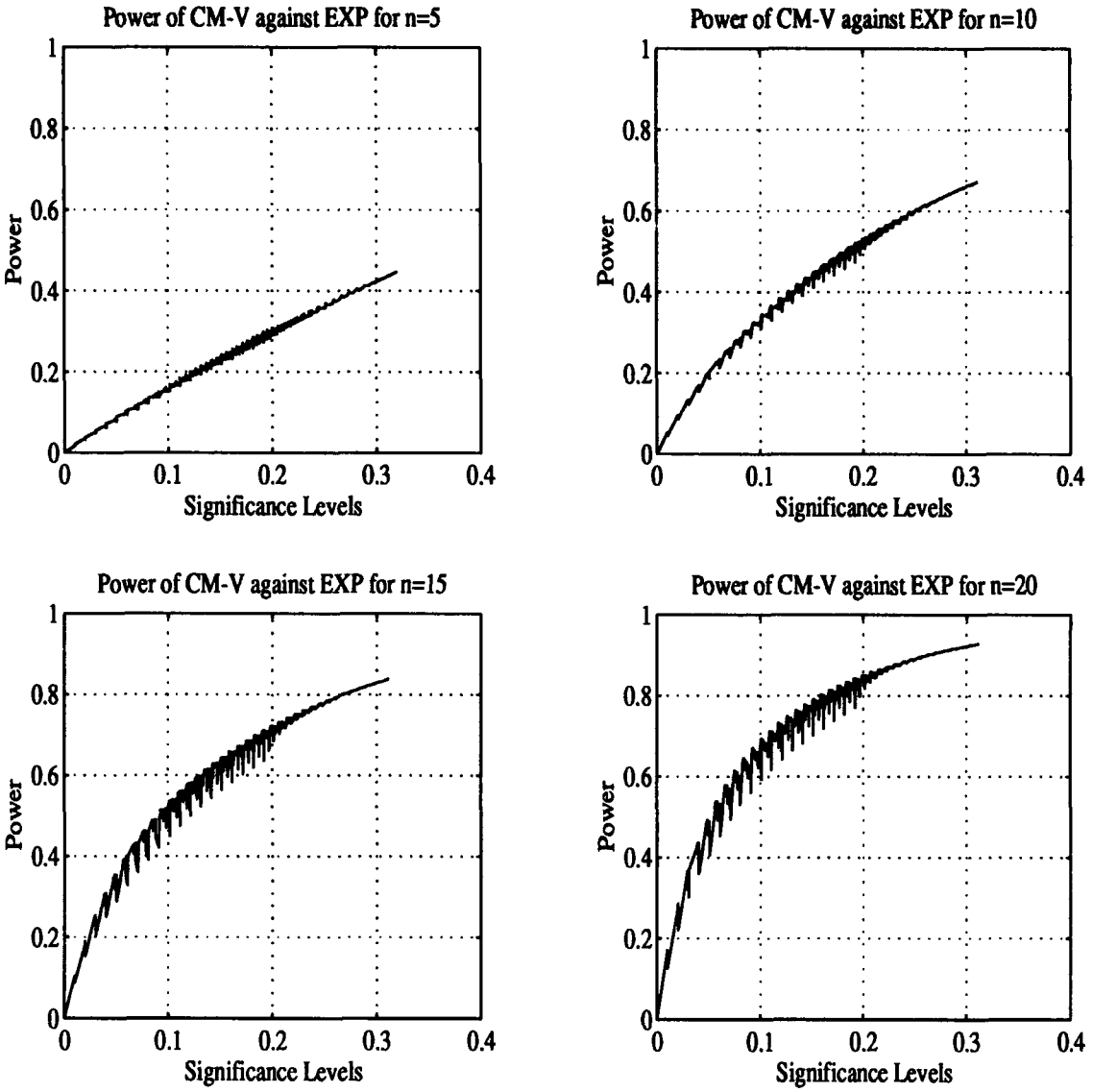

Figure D.2 (Continued)

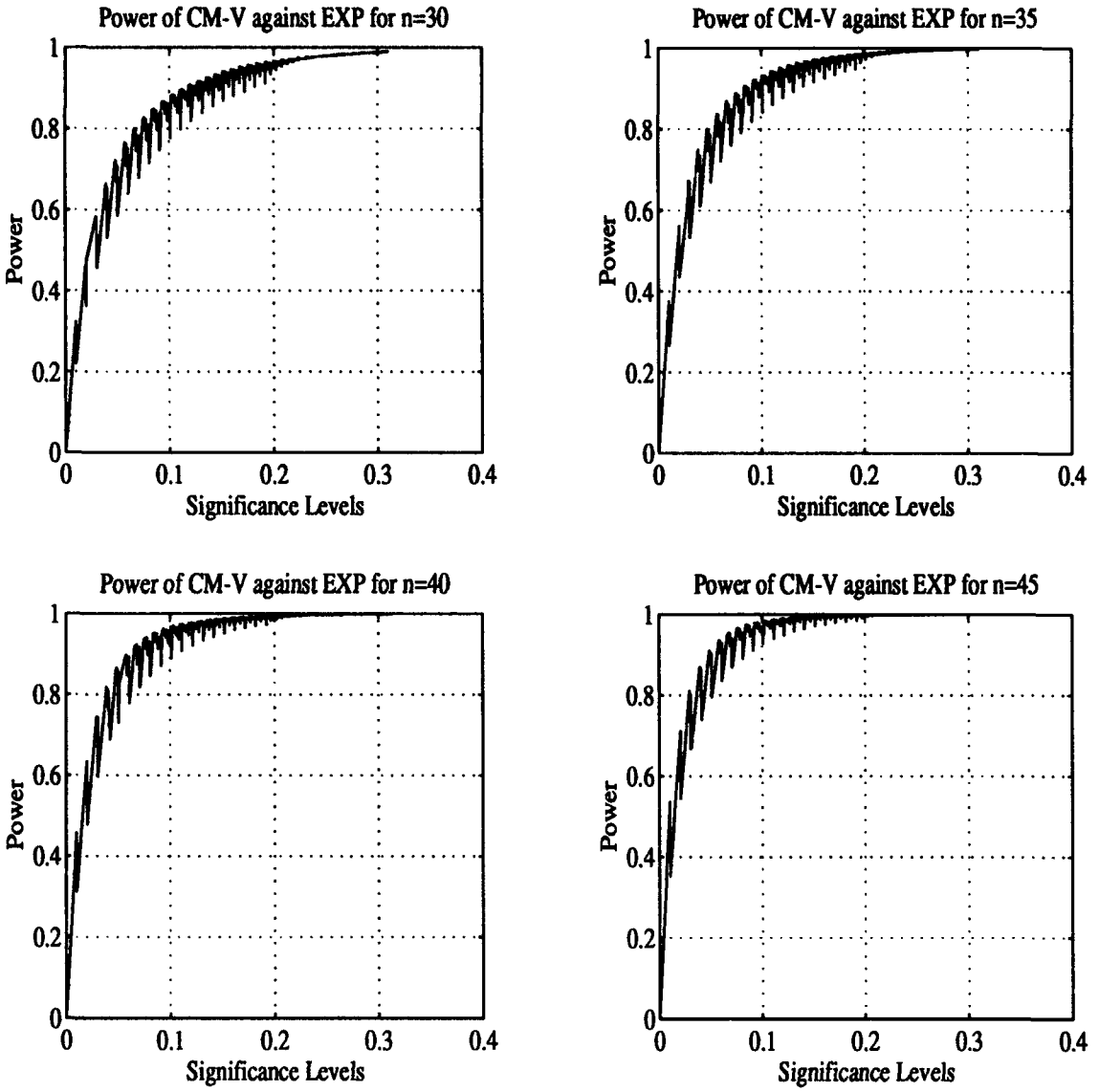

Figure D.2 (Continued)

Powers of $CM - V$ Sequential test against Beta for $n = 5$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00776	.01544	.02306	.03080	.03942	.04820	.05668	.06626	.07612	.08576	.09476	.10480	.11494	.12506	.13390	.14368	.15480	.16510	.17518
0.02	.01598	.02310	.03040	.03758	.04496	.05334	.06170	.06952	.07856	.08826	.09766	.10618	.11576	.12550	.13538	.14396	.15336	.16414	.17428	.18416
0.03	.03018	.03652	.04336	.05016	.05722	.06530	.07322	.08076	.08952	.09892	.10788	.11592	.12522	.13470	.14432	.15270	.16188	.17230	.18226	.19198
0.04	.04502	.05074	.05708	.06340	.07020	.07798	.08560	.09282	.10132	.11048	.11912	.12688	.13588	.14502	.15430	.16248	.17142	.18160	.19130	.20086
0.05	.05976	.06502	.07120	.07722	.08372	.09124	.09852	.10544	.11362	.12252	.13088	.13844	.14714	.15596	.16498	.17286	.18152	.19138	.20080	.21016
0.06	.07572	.08048	.08628	.09208	.09840	.10548	.11232	.11894	.12684	.13550	.14352	.15052	.15890	.16748	.17626	.18392	.19228	.20194	.21104	.22002
0.07	.08970	.09398	.09934	.10486	.11084	.11760	.12424	.13060	.13830	.14658	.15442	.16124	.16948	.17774	.18626	.19370	.20184	.21128	.22018	.22894
0.08	.10334	.10722	.11220	.11732	.12304	.12952	.13596	.14208	.14948	.15750	.16492	.17146	.17948	.18750	.19584	.20304	.21100	.22014	.22884	.23744
0.09	.11770	.12130	.12586	.13064	.13606	.14222	.14832	.15416	.16136	.16912	.17612	.18236	.19004	.19786	.20592	.21300	.22080	.22948	.23802	.24642
0.10	.13138	.13456	.13878	.14336	.14840	.15410	.16000	.16556	.17252	.17996	.18676	.19282	.20028	.20786	.21576	.22252	.23020	.23868	.24706	.25518
0.11	.14594	.14878	.15278	.15706	.16182	.16728	.17288	.17822	.18488	.19216	.19866	.20438	.21166	.21904	.22664	.23320	.24060	.24890	.25706	.26486
0.12	.16100	.16344	.16700	.17112	.17560	.18068	.18608	.19122	.19754	.20450	.21076	.21632	.22328	.23044	.23788	.24418	.25132	.25952	.26746	.27512
0.13	.17456	.17692	.18018	.18398	.18826	.19314	.19832	.20320	.20926	.21586	.22186	.22726	.23396	.24080	.24802	.25414	.26110	.26910	.27684	.28432
0.14	.18842	.19048	.19348	.19694	.20096	.20564	.21044	.21502	.22084	.22722	.23298	.23816	.24472	.25144	.25852	.26444	.27120	.27908	.28666	.29392
0.15	.20094	.20284	.20538	.20852	.21234	.21692	.22148	.22588	.23142	.23758	.24302	.24804	.25434	.26086	.26760	.27340	.27998	.28768	.29506	.30210
0.16	.21548	.21722	.21946	.22232	.22594	.23012	.23448	.23852	.24384	.24974	.25486	.25974	.26572	.27200	.27852	.28414	.29058	.29802	.30520	.31208
0.17	.22922	.23078	.23286	.23544	.23866	.24254	.24704	.25082	.25590	.26148	.26630	.27098	.27666	.28268	.28888	.29422	.30048	.30764	.31458	.32130
0.18	.24300	.24440	.24628	.24862	.25194	.25580	.25984	.26336	.26818	.27352	.27816	.28268	.28804	.29384	.29984	.30506	.31108	.31796	.32460	.33116
0.19	.25572	.25704	.25870	.26086	.26394	.26758	.27146	.27468	.27928	.28432	.28884	.29320	.29838	.30406	.30982	.31494	.32086	.32750	.33386	.34030
0.20	.26826	.26940	.27090	.27290	.27578	.27920	.28292	.28600	.29038	.29520	.29946	.30368	.30868	.31414	.31974	.32474	.33040	.33680	.34300	.34934

Powers of $CM - V$ Sequential test against Beta for $n = 10$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00824	.01680	.02520	.03452	.04506	.05462	.06526	.07640	.08670	.09782	.10882	.12060	.13372	.14498	.15934	.17088	.18320	.19560	.20774
0.02	.03884	.04544	.05242	.05962	.06780	.07704	.08540	.09484	.10486	.11400	.12404	.13402	.14458	.15664	.16690	.17998	.19044	.20194	.21318	.22428
0.03	.07366	.07920	.08526	.09134	.09844	.10650	.11404	.12244	.13140	.13950	.14878	.15816	.16786	.17918	.18856	.20046	.21024	.22086	.23124	.24162
0.04	.10502	.10996	.11512	.12030	.12672	.13372	.14084	.14866	.15670	.16406	.17246	.18126	.18990	.20040	.20922	.22040	.22950	.23930	.24904	.25864
0.05	.13558	.13984	.14442	.14906	.15450	.16060	.16712	.17428	.18156	.18828	.19586	.20392	.21196	.22176	.23008	.24042	.24898	.25816	.26718	.27610
0.06	.16158	.16542	.16958	.17384	.17876	.18436	.19022	.19682	.20342	.20974	.21670	.22418	.23158	.24056	.24854	.25814	.26616	.27478	.28324	.29174
0.07	.18924	.19274	.19642	.20014	.20460	.20972	.21514	.22120	.22726	.23304	.23944	.24628	.25304	.26130	.26888	.27778	.28530	.29342	.30126	.30930
0.08	.21340	.21652	.21982	.22322	.22716	.23182	.23690	.24242	.24800	.25332	.25936	.26576	.27208	.27990	.28702	.29542	.30230	.30996	.31748	.32516
0.09	.23526	.23808	.24122	.24450	.24808	.25242	.25700	.26210	.26736	.27238	.27796	.28400	.28990	.29736	.30410	.31212	.31866	.32584	.33306	.34042
0.10	.25622	.25892	.26184	.26484	.26824	.27230	.27642	.28124	.28610	.29082	.29610	.30176	.30740	.31440	.32096	.32852	.33468	.34132	.34822	.35520
0.11	.27662	.27924	.28188	.28472	.28782	.29154	.29550	.30004	.30450	.30898	.31398	.31930	.32466	.33136	.33750	.34462	.35042	.35668	.36322	.36974
0.12	.29514	.29768	.30024	.30280	.30578	.30924	.31300	.31720	.32132	.32564	.33018	.33524	.34026	.34652	.35238	.35920	.36474	.37062	.37680	.38294
0.13	.31420	.31654	.31892	.32134	.32412	.32744	.33100	.33500	.33884	.34296	.34720	.35210	.35680	.36276	.36830	.37484	.38014	.38562	.39152	.39724
0.14	.33222	.33444	.33668	.33894	.34158	.34464	.34790	.35154	.35518	.35910	.36310	.36776	.37224	.37792	.38322	.38930	.39436	.39960	.40516	.41060
0.15	.34912	.35130	.35338	.35554	.35802	.36088	.36396	.36738	.37078	.37446	.37828	.38268	.38694	.39242	.39750	.40324	.40800	.41300	.41826	.42340
0.16	.36552	.36768	.36974	.37170	.37398	.37672	.37970	.38296	.38618	.38960	.39324	.39744	.40154	.40676	.41172	.41718	.42172	.42640	.43142	.43626
0.17	.38224	.38424	.38624	.38814	.39026	.39278	.39554	.39874	.40174	.40492	.40842	.41240	.41624	.42128	.42602	.43120	.43542	.44002	.44478	.44926
0.18	.39822	.40010	.40202	.40384	.40582	.40814	.41076	.41382	.41670	.41970	.42300	.42674	.43044	.43532	.43988	.44474	.44876	.45310	.45768	.46198
0.19	.41296	.41478	.41660	.41836	.42012	.42238	.42480	.42772	.43040	.43320	.43636	.43986	.44336	.44790	.45236	.45700	.46084	.46504	.46936	.47346
0.20	.42866	.43044	.43222	.43392	.43562	.43780	.44000	.44276	.44526	.44786	.45084	.45420	.45752	.46184	.46610	.47046	.47422	.47828	.48238	.48630

Table D.4 Power tables of $CM - V$ against Beta ditribution

Powers of $CM - V$ Sequential test against Beta for $n = 15$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00988	.02056	.03140	.04318	.05578	.06960	.08122	.09482	.10788	.12276	.13624	.15000	.16494	.17976	.19622	.21156	.22656	.24140	.25980
0.02	.07268	.08048	.08918	.09830	.10846	.11886	.13040	.14048	.15194	.16292	.17588	.18724	.19888	.21162	.22432	.23854	.25194	.26530	.27822	.29406
0.03	.13674	.14338	.15084	.15838	.16680	.17566	.18538	.19390	.20392	.21338	.22462	.23454	.24468	.25592	.26708	.27966	.29166	.30366	.31494	.32910
0.04	.18750	.19338	.19960	.20632	.21328	.22092	.22950	.23716	.24622	.25456	.26464	.27386	.28284	.29304	.30326	.31460	.32558	.33634	.34652	.35924
0.05	.23140	.23690	.24258	.24860	.25468	.26150	.26924	.27610	.28430	.29162	.30070	.30884	.31704	.32634	.33560	.34592	.35560	.36534	.37470	.38628
0.06	.27102	.27608	.28130	.28662	.29190	.29820	.30518	.31142	.31892	.32548	.33350	.34080	.34826	.35680	.36530	.37460	.38354	.39272	.40130	.41204
0.07	.30812	.31274	.31742	.32230	.32698	.33272	.33892	.34448	.35134	.35716	.36474	.37148	.37840	.38636	.39418	.40260	.41088	.41924	.42726	.43720
0.08	.33630	.34066	.34510	.34956	.35394	.35922	.36500	.37016	.37644	.38180	.38876	.39510	.40132	.40888	.41624	.42416	.43178	.43970	.44716	.45674
0.09	.36656	.37062	.37478	.37886	.38274	.38756	.39280	.39748	.40328	.40826	.41472	.42038	.42604	.43284	.43952	.44696	.45426	.46160	.46850	.47734
0.10	.39722	.40116	.40502	.40852	.41206	.41650	.42128	.42550	.43084	.43540	.44126	.44652	.45174	.45800	.46422	.47122	.47792	.48472	.49094	.49920
0.11	.42246	.42628	.42986	.43318	.43642	.44062	.44502	.44898	.45398	.45824	.46374	.46866	.47360	.47948	.48524	.49176	.49780	.50420	.50998	.51766
0.12	.44588	.44956	.45288	.45612	.45920	.46302	.46692	.47064	.47548	.47934	.48462	.48918	.49376	.49930	.50472	.51074	.51640	.52248	.52792	.53520
0.13	.46828	.47168	.47494	.47794	.48078	.48432	.48800	.49146	.49588	.49944	.50436	.50858	.51278	.51792	.52302	.52870	.53398	.53968	.54472	.55144
0.14	.48676	.49006	.49312	.49598	.49864	.50198	.50536	.50860	.51278	.51622	.52086	.52488	.52882	.53370	.53850	.54382	.54882	.55422	.55890	.56526
0.15	.50580	.50888	.51182	.51456	.51700	.52020	.52344	.52654	.53046	.53368	.53814	.54194	.54564	.55012	.55470	.55974	.56450	.56956	.57410	.58002
0.16	.52686	.52986	.53266	.53530	.53756	.54062	.54368	.54658	.55020	.55332	.55756	.56104	.56448	.56872	.57300	.57782	.58234	.58692	.59112	.59672
0.17	.54542	.54828	.55098	.55350	.55562	.55844	.56130	.56400	.56748	.57044	.57440	.57768	.58098	.58492	.58890	.59340	.59774	.60202	.60594	.61124
0.18	.56188	.56466	.56720	.56962	.57164	.57436	.57700	.57958	.58290	.58572	.58946	.59248	.59562	.59940	.60316	.60746	.61166	.61570	.61940	.62448
0.19	.57680	.57948	.58196	.58424	.58618	.58878	.59128	.59376	.59698	.59960	.60312	.60598	.60902	.61266	.61624	.62022	.62432	.62818	.63164	.63636
0.20	.59146	.59406	.59642	.59866	.60052	.60298	.60532	.60772	.61078	.61332	.61668	.61930	.62218	.62556	.62898	.63278	.63666	.64040	.64372	.64816

Powers of $CM - V$ Sequential test against Beta for $n = 20$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01110	.02366	.03910	.05358	.06718	.08470	.10362	.12180	.13958	.15804	.17482	.19498	.21356	.23198	.25236	.27252	.29246	.31470	.33574
0.02	.11844	.12726	.13702	.14982	.16112	.17230	.18618	.20156	.21640	.23086	.24530	.25878	.27544	.29030	.30562	.32250	.33880	.35530	.37346	.39068
0.03	.20846	.21572	.22376	.23452	.24390	.25354	.26512	.27782	.29064	.30256	.31474	.32592	.34042	.35306	.36596	.38050	.39442	.40870	.42436	.43860
0.04	.27812	.28448	.29166	.30100	.30890	.31720	.32712	.33804	.34932	.36008	.37074	.38058	.39322	.40416	.41570	.42828	.44038	.45270	.46644	.47872
0.05	.33754	.34324	.34960	.35792	.36486	.37208	.38052	.39022	.40014	.40942	.41884	.42748	.43850	.44828	.45854	.46994	.48066	.49146	.50352	.51386
0.06	.38356	.38870	.39442	.40196	.40816	.41466	.42222	.43090	.43990	.44840	.45704	.46466	.47456	.48340	.49284	.50314	.51280	.52240	.53318	.54258
0.07	.42656	.43122	.43648	.44320	.44886	.45468	.46148	.46942	.47762	.48536	.49306	.49998	.50926	.51724	.52584	.53508	.54390	.55252	.56210	.57058
0.08	.46190	.46634	.47126	.47752	.48270	.48804	.49424	.50140	.50894	.51618	.52342	.52974	.53854	.54572	.55370	.56214	.56998	.57796	.58692	.59466
0.09	.49450	.49874	.50344	.50920	.51396	.51882	.52458	.53120	.53798	.54442	.55092	.55686	.56508	.57168	.57878	.58670	.59396	.60148	.60972	.61690
0.10	.52248	.52650	.53098	.53638	.54080	.54542	.55082	.55690	.56316	.56912	.57512	.58068	.58834	.59452	.60096	.60828	.61506	.62204	.62968	.63622
0.11	.54852	.55224	.55634	.56136	.56552	.56990	.57490	.58050	.58630	.59174	.59724	.60222	.60936	.61514	.62122	.62780	.63410	.64050	.64776	.65366
0.12	.57358	.57712	.58100	.58560	.58948	.59362	.59836	.60346	.60900	.61400	.61922	.62378	.63030	.63558	.64130	.64730	.65316	.65924	.66622	.67168
0.13	.59422	.59750	.60106	.60534	.60896	.61286	.61726	.62184	.62718	.63200	.63706	.64138	.64750	.65240	.65780	.66344	.66884	.67458	.68108	.68612
0.14	.61522	.61836	.62176	.62570	.62908	.63282	.63696	.64120	.64604	.65060	.65532	.65932	.66494	.66938	.67450	.67954	.68462	.69004	.69628	.70102
0.15	.63322	.63624	.63950	.64326	.64638	.64992	.65388	.65792	.66246	.66664	.67106	.67482	.68014	.68440	.68912	.69390	.69874	.70372	.70958	.71404
0.16	.65248	.65540	.65846	.66208	.66494	.66830	.67196	.67580	.68000	.68394	.68808	.69164	.69652	.70052	.70488	.70936	.71390	.71854	.72400	.72810
0.17	.66950	.67226	.67524	.67862	.68122	.68436	.68780	.69154	.69546	.69914	.70312	.70646	.71106	.71478	.71886	.72310	.72734	.73174	.73692	.74072
0.18	.68562	.68826	.69104	.69420	.69654	.69952	.70280	.70632	.70996	.71342	.71712	.72016	.72436	.72774	.73166	.73570	.73956	.74350	.74834	.75190
0.19	.70108	.70364	.70628	.70932	.71156	.71432	.71736	.72062	.72402	.72726	.73074	.73354	.73746	.74066	.74436	.74820	.75170	.75544	.75994	.76324
0.20	.71584	.71818	.72070	.72354	.72556	.72822	.73118	.73422	.73738	.74048	.74376	.74636	.75006	.75312	.75658	.76022	.76354	.76712	.77124	.77436

Table D.4 (Continued)

Powers of $CM - V$ Sequential test against Beta for n = 25

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01530	.03150	.04930	.06886	.09000	.11122	.13258	.15396	.17824	.20034	.22378	.24834	.27322	.29582	.31888	.34498	.37078	.39570	.41898
0.02	.17436	.18638	.19938	.21298	.22786	.24434	.26042	.27694	.29312	.31230	.32914	.34692	.36642	.38550	.40302	.42100	.44074	.46050	.47974	.49782
0.03	.28540	.29568	.30640	.31736	.32946	.34300	.35618	.36938	.38298	.39918	.41336	.42808	.44406	.45982	.47410	.48912	.50536	.52178	.53780	.55272
0.04	.37474	.38368	.39282	.40218	.41238	.42392	.43512	.44624	.45776	.47124	.48328	.49586	.50920	.52270	.53436	.54692	.56054	.57418	.58784	.60036
0.05	.44160	.44960	.45772	.46574	.47468	.48474	.49456	.50426	.51422	.52576	.53648	.54738	.55916	.57098	.58092	.59178	.60378	.61576	.62790	.63860
0.06	.49382	.50122	.50832	.51536	.52340	.53242	.54110	.54980	.55890	.56900	.57858	.58814	.59866	.60906	.61782	.62744	.63806	.64848	.65938	.66894
0.07	.53602	.54276	.54942	.55556	.56278	.57090	.57866	.58658	.59474	.60380	.61232	.62092	.63046	.63938	.64708	.65562	.66522	.67480	.68450	.69284
0.08	.57602	.58212	.58814	.59352	.60004	.60740	.61434	.62158	.62890	.63712	.64464	.65250	.66120	.66900	.67562	.68346	.69196	.70034	.70916	.71648
0.09	.60964	.61522	.62066	.62548	.63146	.63812	.64444	.65086	.65730	.66468	.67168	.67886	.68690	.69412	.70010	.70714	.71478	.72242	.73034	.73682
0.10	.64070	.64568	.65066	.65506	.66064	.66658	.67246	.67820	.68408	.69094	.69720	.70346	.71090	.71758	.72284	.72920	.73598	.74314	.75028	.75614
0.11	.66920	.67368	.67828	.68226	.68732	.69270	.69808	.70314	.70856	.71482	.72054	.72618	.73296	.73888	.74356	.74932	.75548	.76168	.76858	.77390
0.12	.69218	.69652	.70078	.70454	.70924	.71414	.71910	.72380	.72874	.73446	.73966	.74480	.75116	.75670	.76104	.76622	.77182	.77766	.78382	.78874
0.13	.71414	.71824	.72226	.72578	.73016	.73474	.73922	.74334	.74792	.75322	.75820	.76294	.76876	.77386	.77784	.78242	.78744	.79274	.79838	.80302
0.14	.73320	.73710	.74090	.74416	.74820	.75246	.75662	.76032	.76450	.76950	.77408	.77842	.78386	.78852	.79226	.79638	.80108	.80588	.81096	.81522
0.15	.75044	.75408	.75772	.76068	.76454	.76860	.77258	.77594	.77980	.78436	.78864	.79262	.79772	.80194	.80546	.80950	.81394	.81848	.82320	.82720
0.16	.76758	.77086	.77426	.77708	.78078	.78448	.78814	.79130	.79492	.79906	.80306	.80674	.81142	.81532	.81862	.82248	.82658	.83078	.83512	.83886
0.17	.78274	.78580	.78894	.79154	.79496	.79838	.80174	.80476	.80826	.81196	.81560	.81906	.82346	.82698	.82998	.83352	.83732	.84132	.84528	.84858
0.18	.79510	.79790	.80082	.80316	.80628	.80946	.81266	.81554	.81882	.82242	.82578	.82900	.83314	.83652	.83932	.84254	.84608	.84990	.85364	.85680
0.19	.80754	.81026	.81302	.81522	.81818	.82116	.82406	.82684	.82992	.83316	.83624	.83922	.84306	.84622	.84890	.85192	.85514	.85868	.86216	.86510
0.20	.81908	.82174	.82432	.82642	.82920	.83198	.83482	.83746	.84034	.84330	.84612	.84894	.85246	.85540	.85796	.86074	.86376	.86704	.87028	.87292

Powers of $CM - V$ Sequential test against Beta for n = 30

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01992	.04324	.06726	.09258	.11766	.14558	.17374	.20242	.23230	.26164	.29174	.31952	.35044	.37812	.40614	.43202	.45794	.48288	.50982
0.02	.23958	.25400	.27064	.28794	.30610	.32388	.34486	.36508	.38608	.40834	.42974	.45126	.47120	.49348	.51326	.53342	.55238	.57092	.58860	.60732
0.03	.36860	.38010	.39384	.40754	.42240	.43676	.45380	.47042	.48732	.50598	.52338	.54084	.55670	.57452	.59058	.60672	.62252	.63660	.65020	.66498
0.04	.46998	.47952	.49106	.50236	.51464	.52672	.54104	.55478	.56852	.58378	.59838	.61282	.62572	.64034	.65324	.66650	.67878	.69044	.70186	.71362
0.05	.54056	.54852	.55836	.56820	.57858	.58916	.60150	.61318	.62488	.63794	.65026	.66252	.67334	.68580	.69666	.70808	.71860	.72858	.73820	.74810
0.06	.59282	.59970	.60822	.61684	.62602	.63548	.64646	.65684	.66708	.67808	.68900	.69980	.70900	.71972	.72920	.73944	.74872	.75736	.76580	.77420
0.07	.63790	.64414	.65160	.65926	.66736	.67564	.68548	.69464	.70352	.71306	.72240	.73212	.74008	.74966	.75796	.76682	.77492	.78264	.78980	.79696
0.08	.67486	.68030	.68692	.69372	.70100	.70842	.71698	.72508	.73306	.74160	.75002	.75862	.76556	.77420	.78174	.78980	.79696	.80384	.80996	.81638
0.09	.70664	.71158	.71742	.72358	.73002	.73686	.74422	.75146	.75870	.76646	.77410	.78160	.78766	.79518	.80186	.80890	.81534	.82146	.82712	.83292
0.10	.73342	.73802	.74326	.74892	.75478	.76104	.76740	.77408	.78050	.78744	.79420	.80086	.80622	.81294	.81906	.82532	.83106	.83656	.84162	.84684
0.11	.75754	.76172	.76640	.77126	.77658	.78218	.78788	.79398	.79976	.80592	.81208	.81788	.82266	.82858	.83406	.83960	.84456	.84996	.85444	.85900
0.12	.77922	.78300	.78730	.79176	.79650	.80152	.80656	.81212	.81730	.82294	.82828	.83350	.83796	.84340	.84842	.85324	.85788	.86234	.86650	.87064
0.13	.79844	.80188	.80580	.81002	.81436	.81906	.82354	.82866	.83336	.83840	.84330	.84810	.85224	.85692	.86142	.86570	.86996	.87402	.87758	.88144
0.14	.81500	.81826	.82182	.82550	.82954	.83386	.83762	.84228	.84640	.85088	.85540	.85974	.86346	.86772	.87180	.87574	.87966	.88340	.88680	.89006
0.15	.82762	.83060	.83392	.83738	.84122	.84522	.84878	.85312	.85706	.86124	.86550	.86944	.87292	.87688	.88066	.88424	.88784	.89142	.89434	.89756
0.16	.84230	.84504	.84804	.85116	.85446	.85810	.86136	.86524	.86886	.87286	.87660	.88022	.88354	.88714	.89054	.89378	.89708	.90034	.90308	.90592
0.17	.85390	.85636	.85902	.86198	.86504	.86828	.87144	.87510	.87854	.88226	.88570	.88910	.89210	.89548	.89848	.90122	.90428	.90724	.90982	.91256
0.18	.86596	.86822	.87076	.87354	.87642	.87936	.88228	.88562	.88878	.89218	.89532	.89834	.90112	.90412	.90692	.90946	.91218	.91488	.91716	.91952
0.19	.87626	.87840	.88076	.88338	.88594	.88866	.89142	.89452	.89734	.90040	.90326	.90612	.90866	.91142	.91400	.91624	.91886	.92106	.92314	.92530
0.20	.88586	.88782	.88998	.89248	.89484	.89734	.89994	.90274	.90532	.90812	.91072	.91334	.91570	.91818	.92062	.92266	.92486	.92712	.92900	.93088

Table D.4 (Continued)

Powers of $CM - V$ Sequential test against Beta for n = 35

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02554	.05618	.08390	.11644	.14942	.18446	.21812	.24974	.28468	.32282	.35584	.38772	.42004	.45240	.48328	.51370	.54286	.56924	.59626
0.02	.29894	.31686	.33776	.35590	.37788	.39956	.42364	.44684	.46796	.49106	.51722	.53958	.56124	.58294	.60460	.62550	.64546	.66504	.68232	.69972
0.03	.46100	.47474	.49036	.50408	.52134	.53790	.55626	.57366	.58960	.60676	.62632	.64304	.65962	.67630	.69228	.70764	.72270	.73714	.75010	.76282
0.04	.56380	.57468	.58710	.59808	.61220	.62522	.63980	.65410	.66688	.68088	.69690	.70998	.72308	.73638	.74926	.76136	.77356	.78504	.79560	.80564
0.05	.63998	.64880	.65872	.66754	.67898	.68946	.70122	.71256	.72300	.73442	.74736	.75792	.76886	.77956	.79018	.79992	.80976	.81908	.82786	.83598
0.06	.69490	.70232	.71094	.71796	.72760	.73612	.74578	.75524	.76406	.77362	.78432	.79328	.80258	.81190	.82086	.82878	.83728	.84474	.85218	.85916
0.07	.73434	.74086	.74826	.75424	.76270	.77014	.77836	.78678	.79404	.80234	.81164	.81952	.82762	.83566	.84338	.85022	.85764	.86404	.87062	.87684
0.08	.77064	.77624	.78272	.78790	.79540	.80180	.80886	.81626	.82264	.82952	.83730	.84378	.85066	.85778	.86426	.87008	.87618	.88162	.88728	.89244
0.09	.79588	.80086	.80660	.81122	.81782	.82368	.82982	.83632	.84204	.84824	.85528	.86088	.86692	.87322	.87904	.88418	.88942	.89434	.89924	.90386
0.10	.81674	.82112	.82628	.83050	.83622	.84150	.84718	.85300	.85816	.86368	.86980	.87478	.88012	.88570	.89098	.89564	.90054	.90502	.90940	.91372
0.11	.83608	.83998	.84472	.84846	.85352	.85836	.86326	.86846	.87310	.87808	.88348	.88788	.89272	.89776	.90246	.90664	.91104	.91498	.91872	.92268
0.12	.85446	.85780	.86202	.86540	.86992	.87412	.87846	.88316	.88736	.89174	.89668	.90060	.90478	.90934	.91354	.91706	.92080	.92428	.92752	.93088
0.13	.87004	.87308	.87702	.87992	.88400	.88758	.89162	.89578	.89958	.90344	.90796	.91130	.91496	.91906	.92278	.92586	.92928	.93236	.93502	.93798
0.14	.88266	.88548	.88916	.89180	.89540	.89866	.90212	.90592	.90944	.91290	.91700	.92002	.92340	.92704	.93038	.93310	.93626	.93896	.94138	.94394
0.15	.89196	.89454	.89790	.90030	.90362	.90662	.90982	.91334	.91650	.91972	.92364	.92632	.92944	.93288	.93600	.93852	.94140	.94392	.94624	.94860
0.16	.90236	.90474	.90772	.91002	.91292	.91568	.91846	.92170	.92452	.92742	.93100	.93348	.93638	.93936	.94222	.94452	.94704	.94914	.95128	.95328
0.17	.91280	.91492	.91754	.91950	.92224	.92478	.92726	.93018	.93270	.93534	.93850	.94054	.94314	.94580	.94820	.95026	.95252	.95438	.95628	.95814
0.18	.91990	.92194	.92432	.92618	.92872	.93110	.93324	.93588	.93820	.94068	.94358	.94546	.94790	.95020	.95242	.95430	.95636	.95810	.95982	.96152
0.19	.92602	.92792	.93010	.93178	.93414	.93638	.93830	.94078	.94290	.94516	.94786	.94962	.95196	.95400	.95604	.95778	.95972	.96134	.96296	.96454
0.20	.93244	.93414	.93612	.93762	.93980	.94190	.94366	.94588	.94788	.94988	.95242	.95406	.95614	.95810	.95998	.96158	.96332	.96478	.96630	.96768

Powers of $CM - V$ Sequential test against Beta for n = 40

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03146	.06628	.10542	.15328	.18658	.22656	.26842	.30746	.35008	.38966	.43148	.46648	.50108	.53488	.56636	.59568	.62500	.65124	.67336
0.02	.35772	.37806	.39928	.42416	.45422	.47512	.50004	.52678	.55096	.57756	.60320	.62960	.65162	.67370	.69462	.71404	.73220	.75102	.76726	.78084
0.03	.53754	.55174	.56706	.58516	.60616	.62078	.63932	.65698	.67412	.69342	.71218	.73102	.74688	.76332	.77782	.79140	.80420	.81780	.82904	.83866
0.04	.64186	.65254	.66404	.67812	.69416	.70532	.71888	.73304	.74616	.76136	.77572	.79016	.80264	.81534	.82598	.83672	.84600	.85634	.86494	.87244
0.05	.70768	.71612	.72546	.73712	.75002	.75880	.76968	.78090	.79144	.80362	.81574	.82760	.83784	.84824	.85692	.86594	.87352	.88212	.88896	.89488
0.06	.75572	.76288	.77044	.78026	.79114	.79814	.80692	.81644	.82546	.83572	.84572	.85546	.86442	.87294	.88018	.88764	.89410	.90134	.90682	.91172
0.07	.79574	.80180	.80794	.81618	.82518	.83102	.83838	.84626	.85380	.86218	.87028	.87826	.88552	.89296	.89900	.90506	.91052	.91672	.92104	.92526
0.08	.82370	.82888	.83430	.84174	.84950	.85458	.86098	.86772	.87416	.88126	.88832	.89514	.90154	.90760	.91268	.91778	.92260	.92784	.93162	.93522
0.09	.84788	.85222	.85696	.86324	.86958	.87404	.87974	.88536	.89098	.89720	.90342	.90932	.91484	.92022	.92454	.92886	.93292	.93718	.94056	.94372
0.10	.86966	.87350	.87774	.88322	.88856	.89232	.89714	.90202	.90700	.91236	.91764	.92260	.92748	.93188	.93536	.93904	.94242	.94614	.94890	.95152
0.11	.88954	.89286	.89660	.90122	.90574	.90888	.91292	.91710	.92122	.92572	.93020	.93452	.93870	.94240	.94554	.94882	.95128	.95430	.95676	.95892
0.12	.90544	.90826	.91130	.91516	.91896	.92162	.92518	.92876	.93220	.93614	.94004	.94388	.94744	.95058	.95332	.95584	.95800	.96028	.96234	.96422
0.13	.91930	.92176	.92428	.92754	.93088	.93322	.93634	.93936	.94232	.94572	.94904	.95242	.95542	.95788	.96004	.96214	.96400	.96600	.96762	.96900
0.14	.92740	.92958	.93182	.93490	.93780	.93992	.94276	.94548	.94808	.95120	.95406	.95698	.95976	.96202	.96394	.96576	.96746	.96928	.97070	.97180
0.15	.93680	.93874	.94078	.94342	.94608	.94782	.95034	.95276	.95504	.95786	.96018	.96274	.96510	.96692	.96862	.97022	.97166	.97328	.97446	.97542
0.16	.94560	.94734	.94918	.95148	.95376	.95514	.95720	.95934	.96120	.96364	.96566	.96788	.96996	.97162	.97310	.97444	.97560	.97686	.97788	.97866
0.17	.95286	.95442	.95598	.95786	.95984	.96094	.96268	.96454	.96626	.96842	.97014	.97212	.97398	.97546	.97674	.97792	.97892	.97996	.98082	.98152
0.18	.95804	.95940	.96072	.96240	.96408	.96504	.96656	.96828	.96978	.97164	.97328	.97508	.97672	.97800	.97914	.98012	.98106	.98198	.98272	.98336
0.19	.96184	.96304	.96430	.96588	.96744	.96836	.96978	.97134	.97266	.97432	.97586	.97762	.97918	.98028	.98132	.98212	.98302	.98382	.98444	.98506
0.20	.96406	.96516	.96634	.96780	.96928	.97012	.97144	.97292	.97416	.97572	.97726	.97894	.98048	.98154	.98252	.98328	.98416	.98494	.98554	.98614

Table D.4 (Continued)

Powers of $CM - V$ Sequential test against Beta for n = 45

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03728	.08266	.13300	.18108	.23010	.27686	.32370	.36682	.41502	.45876	.49956	.53880	.57246	.60974	.63966	.66894	.69704	.72282	.74468
0.02	.44132	.46198	.48702	.51464	.54070	.56768	.59320	.61840	.64218	.66882	.69308	.71564	.73680	.75584	.77658	.79348	.80972	.82528	.83874	.85012
0.03	.61474	.62864	.64598	.66514	.68308	.70122	.71870	.73632	.75242	.77046	.78740	.80294	.81698	.83006	.84404	.85588	.86692	.87784	.88670	.89388
0.04	.70840	.71892	.73196	.74654	.75972	.77348	.78672	.80036	.81280	.82638	.83908	.85056	.86130	.87122	.88170	.89064	.89902	.90758	.91418	.91932
0.05	.78020	.78806	.79772	.80874	.81844	.82858	.83834	.84830	.85796	.86798	.87750	.88644	.89496	.90230	.91014	.91688	.92296	.92926	.93424	.93806
0.06	.82540	.83142	.83882	.84730	.85466	.86302	.87086	.87880	.88648	.89446	.90172	.90904	.91584	.92140	.92782	.93338	.93824	.94344	.94734	.95040
0.07	.86368	.86832	.87398	.88076	.88658	.89312	.89914	.90520	.91084	.91686	.92262	.92820	.93358	.93796	.94296	.94738	.95086	.95498	.95792	.96026
0.08	.88664	.89038	.89506	.90082	.90546	.91080	.91578	.92088	.92562	.93066	.93534	.94020	.94468	.94840	.95256	.95622	.95896	.96240	.96486	.96692
0.09	.90630	.90946	.91332	.91824	.92226	.92664	.93078	.93488	.93894	.94306	.94680	.95086	.95464	.95762	.96092	.96402	.96610	.96912	.97122	.97282
0.10	.92274	.92534	.92870	.93294	.93614	.93972	.94304	.94662	.95012	.95362	.95686	.96018	.96312	.96548	.96822	.97072	.97252	.97510	.97668	.97806
0.11	.93406	.93620	.93896	.94252	.94536	.94842	.95124	.95442	.95746	.96034	.96322	.96608	.96856	.97070	.97292	.97522	.97662	.97874	.98004	.98126
0.12	.94454	.94632	.94850	.95138	.95366	.95606	.95846	.96104	.96366	.96602	.96844	.97078	.97286	.97478	.97670	.97876	.97990	.98176	.98282	.98388
0.13	.95356	.95512	.95678	.95908	.96098	.96290	.96502	.96726	.96942	.97148	.97360	.97566	.97738	.97902	.98056	.98230	.98314	.98478	.98560	.98642
0.14	.95816	.95952	.96098	.96298	.96466	.96634	.96826	.97036	.97238	.97422	.97616	.97802	.97958	.98106	.98240	.98410	.98486	.98632	.98710	.98780
0.15	.96222	.96344	.96476	.96662	.96814	.96966	.97134	.97318	.97504	.97666	.97842	.98010	.98146	.98284	.98406	.98562	.98626	.98754	.98826	.98890
0.16	.96700	.96810	.96920	.97090	.97226	.97354	.97510	.97672	.97832	.97974	.98102	.98256	.98370	.98466	.98598	.98734	.98790	.98906	.98974	.99030
0.17	.97148	.97240	.97336	.97490	.97606	.97714	.97852	.97990	.98116	.98242	.98352	.98490	.98586	.98686	.98782	.98896	.98940	.99046	.99112	.99156
0.18	.97618	.97692	.97768	.97900	.97992	.98082	.98198	.98312	.98412	.98512	.98604	.98724	.98800	.98890	.98966	.99056	.99094	.99184	.99234	.99264
0.19	.97956	.98020	.98094	.98208	.98290	.98366	.98468	.98568	.98660	.98736	.98812	.98912	.98970	.99058	.99120	.99198	.99228	.99308	.99352	.99380
0.20	.98088	.98150	.98218	.98326	.98402	.98474	.98568	.98660	.98750	.98820	.98884	.98980	.99032	.99118	.99178	.99248	.99278	.99358	.99400	.99426

Powers of $CM - V$ Sequential test against Beta for n = 50

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.05252	.10776	.16484	.22260	.28340	.33990	.39002	.44192	.48680	.53598	.57606	.61510	.64972	.68196	.70998	.73584	.76090	.78622	.80672
0.02	.48224	.50948	.53712	.56664	.59622	.62750	.65604	.68232	.70870	.73176	.75780	.77808	.79804	.81594	.83296	.84728	.86082	.87402	.88620	.89632
0.03	.65666	.67532	.69390	.71318	.73320	.75354	.77248	.78988	.80690	.82190	.83936	.85276	.86580	.87734	.88862	.89766	.90492	.91540	.92302	.92952
0.04	.75276	.76632	.77958	.79368	.80786	.82232	.83608	.84862	.86044	.87104	.88350	.89332	.90276	.91118	.91940	.92606	.93308	.93938	.94474	.94934
0.05	.82408	.83412	.84304	.85322	.86356	.87384	.88362	.89218	.90072	.90862	.91782	.92462	.93124	.93724	.94302	.94770	.95274	.95714	.96078	.96382
0.06	.86332	.87086	.87808	.88616	.89416	.90222	.90972	.91640	.92298	.92906	.93594	.94178	.94690	.95152	.95562	.95934	.96328	.96662	.96938	.97166
0.07	.89338	.89942	.90518	.91148	.91766	.92422	.92988	.93536	.94058	.94508	.95052	.95480	.95874	.96230	.96544	.96820	.97122	.97388	.97612	.97778
0.08	.91154	.91660	.92148	.92666	.93188	.93726	.94178	.94650	.95078	.95438	.95900	.96252	.96572	.96846	.97122	.97358	.97612	.97838	.98028	.98188
0.09	.92844	.93252	.93634	.94052	.94468	.94908	.95284	.95648	.95996	.96284	.96666	.96936	.97180	.97440	.97656	.97850	.98044	.98224	.98378	.98498
0.10	.93938	.94260	.94578	.94916	.95280	.95632	.95960	.96278	.96590	.96838	.97156	.97390	.97596	.97816	.97992	.98162	.98338	.98492	.98616	.98710
0.11	.95312	.95574	.95828	.96070	.96344	.96606	.96860	.97094	.97352	.97536	.97790	.97982	.98150	.98332	.98474	.98608	.98754	.98854	.98944	.99008
0.12	.95776	.96014	.96244	.96464	.96718	.96956	.97182	.97386	.97614	.97784	.98012	.98178	.98336	.98502	.98630	.98748	.98868	.98980	.99066	.99124
0.13	.96106	.96322	.96534	.96730	.96958	.97184	.97396	.97588	.97794	.97952	.98160	.98322	.98476	.98632	.98752	.98866	.98968	.99072	.99146	.99210
0.14	.96522	.96716	.96906	.97070	.97284	.97486	.97678	.97852	.98024	.98164	.98358	.98492	.98638	.98778	.98882	.98988	.99080	.99178	.99244	.99298
0.15	.96910	.97072	.97238	.97384	.97580	.97752	.97924	.98082	.98230	.98352	.98530	.98654	.98778	.98910	.99004	.99094	.99182	.99272	.99338	.99384
0.16	.97270	.97414	.97554	.97684	.97866	.98018	.98178	.98316	.98440	.98544	.98700	.98814	.98912	.99024	.99110	.99200	.99274	.99358	.99418	.99460
0.17	.97488	.97622	.97752	.97870	.98042	.98188	.98338	.98454	.98566	.98656	.98808	.98908	.98996	.99096	.99174	.99260	.99330	.99408	.99466	.99504
0.18	.97902	.98018	.98120	.98224	.98376	.98498	.98620	.98718	.98810	.98888	.99004	.99096	.99174	.99254	.99326	.99396	.99442	.99506	.99554	.99588
0.19	.98208	.98308	.98400	.98492	.98618	.98732	.98840	.98926	.98998	.99060	.99160	.99242	.99308	.99376	.99430	.99480	.99528	.99574	.99610	.99640
0.20	.98346	.98438	.98518	.98602	.98718	.98828	.98930	.99016	.99076	.99130	.99228	.99302	.99366	.99432	.99482	.99526	.99572	.99612	.99648	.99676

Table D.4 (Continued)

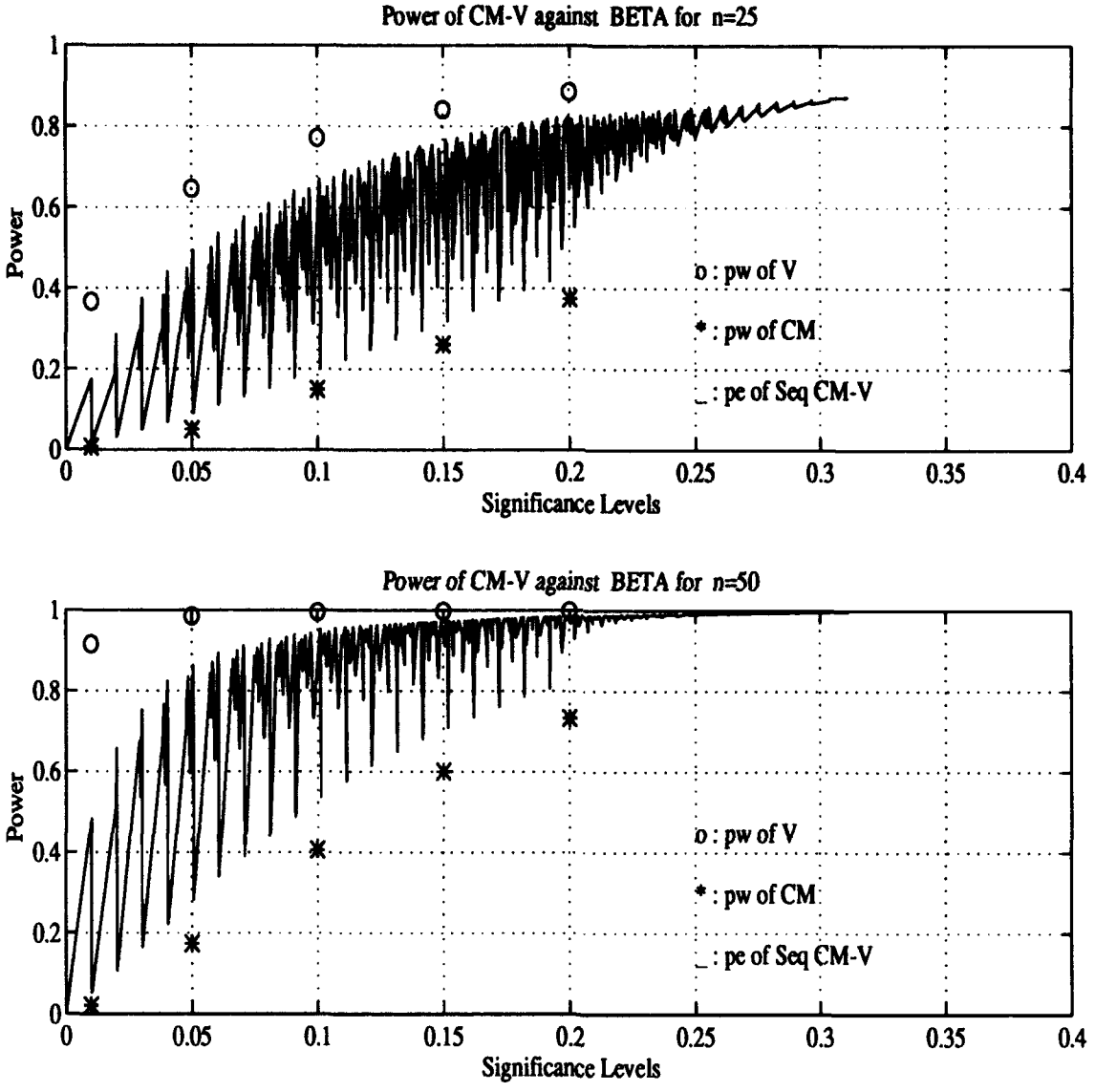

Figure D.3 Power comparisons of $CM - V$ against Beta

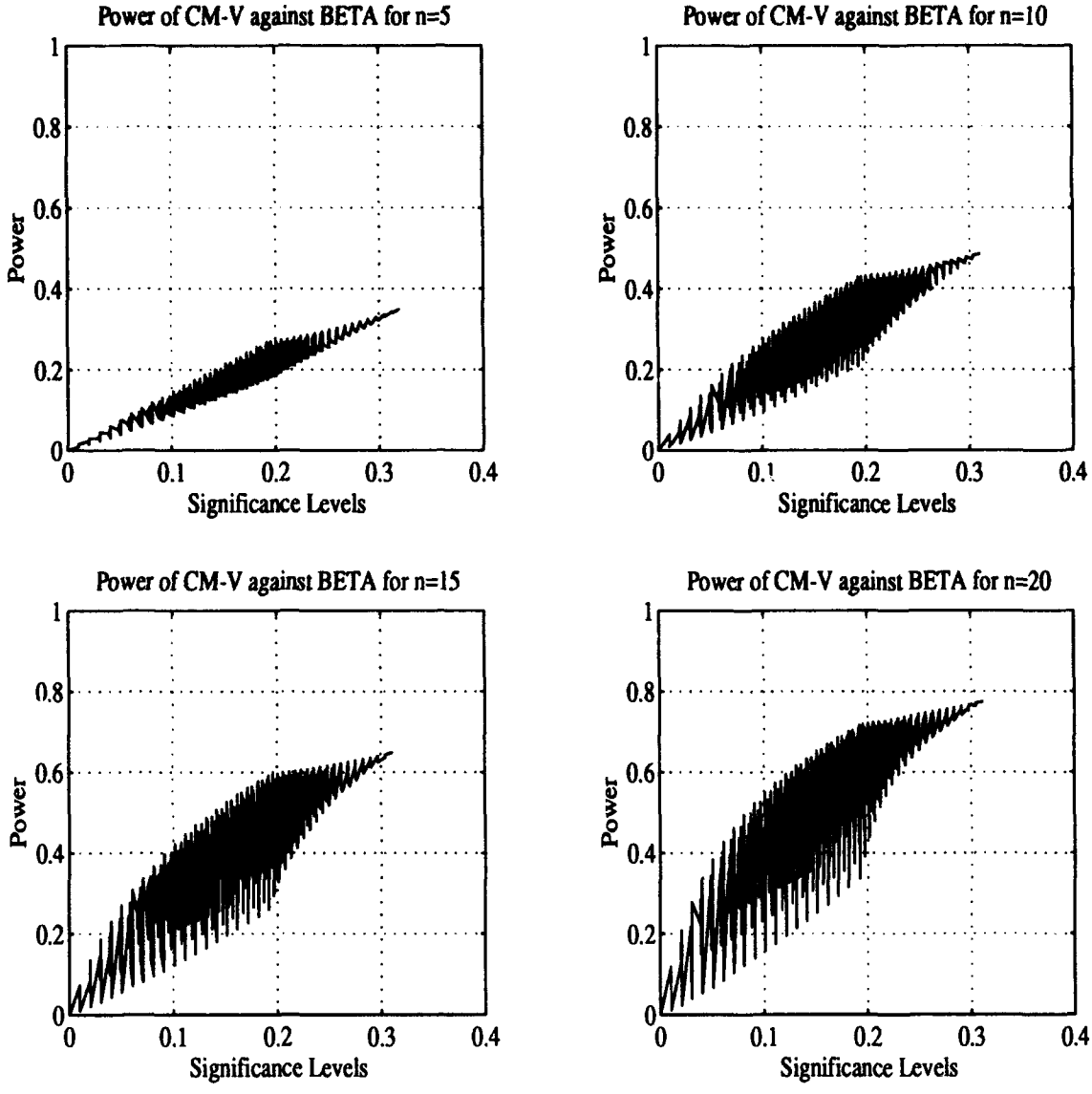

Figure D.3 (Continued)

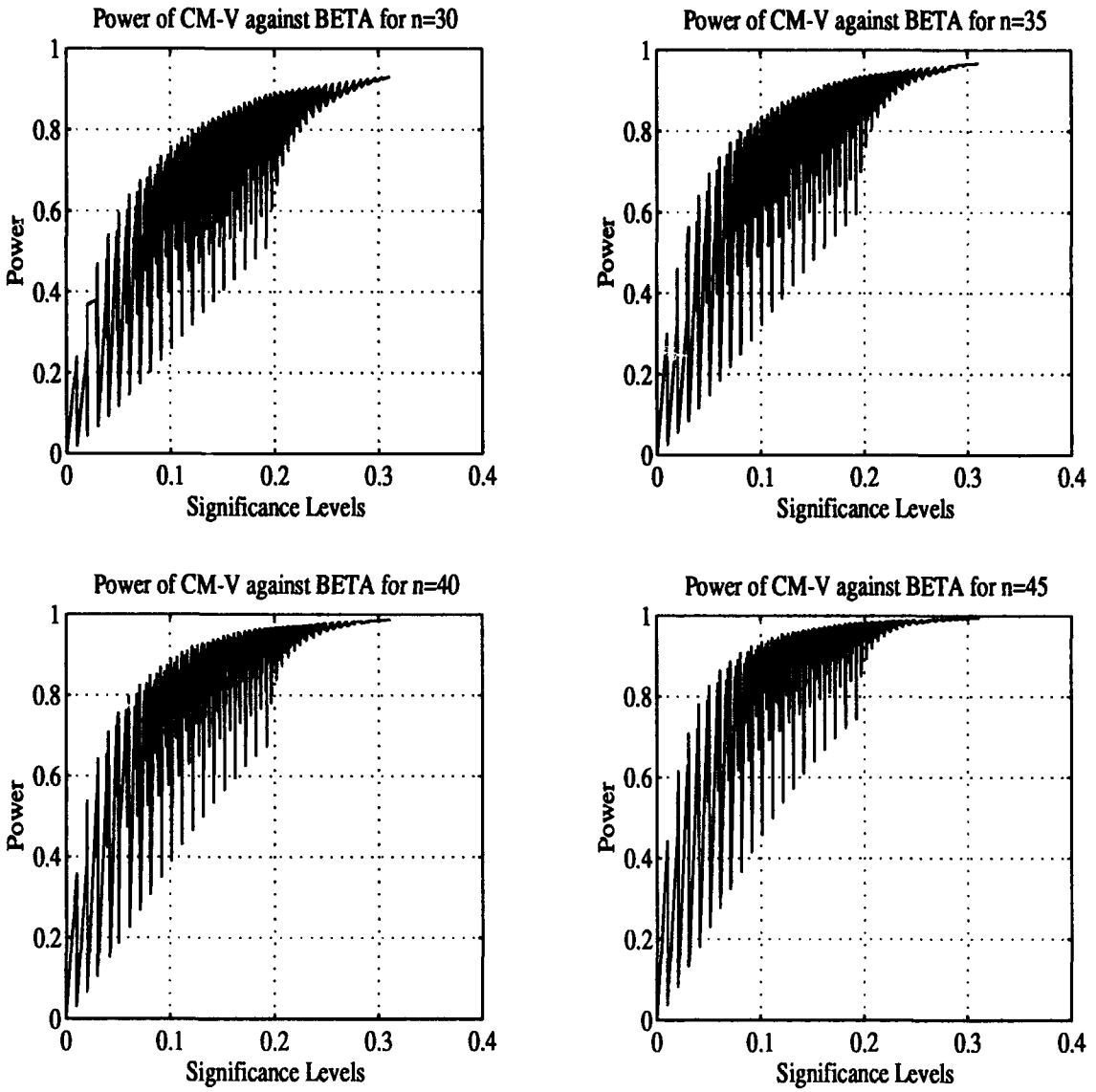

Figure D.3 (Continued)

Powers of $CM - V$ Sequential test against Gamma for $n = 5$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00990	.01946	.02910	.04018	.05104	.06152	.07252	.08398	.09598	.10760	.11806	.13054	.14204	.15410	.16526	.17748	.18878	.19916	.21102
0.02	.01622	.02556	.03448	.04360	.05418	.06470	.07476	.08546	.09646	.10794	.11914	.12930	.14140	.15278	.16452	.17536	.18730	.19836	.20850	.22010
0.03	.03054	.03940	.04784	.05650	.06668	.07688	.08656	.09698	.10780	.11912	.13006	.14006	.15182	.16310	.17470	.18530	.19698	.20776	.21774	.22914
0.04	.04380	.05206	.05996	.06832	.07802	.08794	.09730	.10740	.11790	.12896	.13964	.14936	.16074	.17174	.18312	.19348	.20508	.21560	.22544	.23674
0.05	.05720	.06498	.07248	.08034	.08976	.09922	.10840	.11816	.12838	.13918	.14958	.15916	.17036	.18120	.19228	.20244	.21368	.22396	.23356	.24460
0.06	.07278	.07984	.08676	.09424	.10318	.11232	.12108	.13056	.14050	.15090	.16108	.17048	.18138	.19196	.20284	.21274	.22376	.23380	.24318	.25400
0.07	.08676	.09324	.09978	.10692	.11552	.12432	.13282	.14206	.15160	.16178	.17170	.18082	.19146	.20164	.21222	.22190	.23278	.24250	.25166	.26224
0.08	.10062	.10654	.11260	.11936	.12758	.13598	.14412	.15308	.16236	.17232	.18184	.19070	.20110	.21108	.22136	.23082	.24156	.25110	.26008	.27046
0.09	.11432	.11984	.12560	.13214	.14014	.14820	.15610	.16490	.17382	.18350	.19266	.20118	.21132	.22096	.23098	.24018	.25064	.26002	.26878	.27886
0.10	.12836	.13324	.13874	.14476	.15240	.16012	.16788	.17642	.18510	.19448	.20340	.21172	.22150	.23092	.24072	.24956	.25976	.26900	.27760	.28752
0.11	.14362	.14804	.15324	.15888	.16620	.17362	.18108	.18930	.19772	.20682	.21548	.22360	.23312	.24224	.25182	.26044	.27030	.27928	.28764	.29734
0.12	.15818	.16216	.16704	.17238	.17948	.18658	.19390	.20178	.20968	.21848	.22676	.23452	.24372	.25268	.26200	.27044	.28002	.28886	.29702	.30656
0.13	.17210	.17582	.18044	.18538	.19210	.19890	.20606	.21364	.22122	.22978	.23772	.24526	.25416	.26294	.27202	.28024	.28950	.29810	.30618	.31546
0.14	.18568	.18908	.19344	.19812	.20446	.21102	.21784	.22512	.23236	.24072	.24848	.25582	.26450	.27292	.28182	.28990	.29894	.30744	.31530	.32436
0.15	.19850	.20156	.20566	.21008	.21624	.22248	.22896	.23598	.24294	.25112	.25868	.26584	.27436	.28258	.29120	.29906	.30800	.31622	.32398	.33266
0.16	.21248	.21512	.21884	.22296	.22880	.23464	.24072	.24744	.25418	.26200	.26930	.27628	.28458	.29244	.30092	.30856	.31726	.32534	.33292	.34132
0.17	.22582	.22822	.23152	.23530	.24084	.24638	.25224	.25878	.26528	.27286	.27982	.28660	.29454	.30222	.31046	.31798	.32656	.33456	.34198	.35024
0.18	.23864	.24086	.24384	.24724	.25240	.25772	.26332	.26956	.27588	.28312	.28984	.29648	.30414	.31164	.31970	.32700	.33536	.34322	.35038	.35852
0.19	.25044	.25254	.25526	.25848	.26346	.26850	.27372	.27974	.28582	.29280	.29930	.30570	.31320	.32042	.32826	.33544	.34362	.35126	.35830	.36622
0.20	.26380	.26572	.26826	.27124	.27602	.28070	.28570	.29152	.29740	.30412	.31038	.31650	.32370	.33070	.33830	.34536	.35330	.36080	.36764	.37528

Powers of $CM - V$ Sequential test against Gamma for $n = 10$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01808	.03636	.05564	.07256	.08932	.10664	.12360	.14124	.15878	.17426	.18934	.20734	.22406	.23890	.25660	.27096	.28596	.30056	.31512
0.02	.03634	.05150	.06782	.08556	.10062	.11626	.13206	.14820	.16480	.18136	.19598	.21026	.22746	.24330	.25746	.27430	.28782	.30196	.31592	.32988
0.03	.06846	.08174	.09630	.11246	.12592	.14040	.15522	.17044	.18622	.20202	.21588	.22946	.24600	.26114	.27466	.29104	.30388	.31748	.33070	.34390
0.04	.09768	.10930	.12226	.13700	.14962	.16310	.17688	.19126	.20626	.22134	.23440	.24722	.26298	.27756	.29058	.30634	.31866	.33170	.34434	.35696
0.05	.12642	.13678	.14824	.16174	.17348	.18600	.19890	.21260	.22684	.24122	.25370	.26616	.28124	.29518	.30762	.32260	.33452	.34696	.35910	.37122
0.06	.15322	.16234	.17274	.18520	.19590	.20764	.21984	.23272	.24612	.25972	.27158	.28340	.29808	.31132	.32322	.33746	.34888	.36092	.37266	.38440
0.07	.18004	.18818	.19744	.20856	.21850	.22932	.24078	.25284	.26542	.27832	.28956	.30082	.31504	.32766	.33914	.35280	.36366	.37518	.38638	.39746
0.08	.20332	.21054	.21908	.22940	.23862	.24866	.25936	.27078	.28256	.29488	.30552	.31620	.32986	.34216	.35322	.36642	.37698	.38796	.39888	.40966
0.09	.22534	.23182	.23948	.24890	.25740	.26676	.27676	.28754	.29886	.31060	.32090	.33110	.34412	.35600	.36672	.37938	.38934	.39990	.41044	.42074
0.10	.24474	.25064	.25774	.26642	.27438	.28326	.29274	.30292	.31386	.32524	.33506	.34494	.35746	.36900	.37924	.39146	.40096	.41114	.42138	.43140
0.11	.26498	.27042	.27672	.28476	.29224	.30070	.30942	.31906	.32958	.34038	.34986	.35938	.37140	.38254	.39240	.40422	.41336	.42326	.43314	.44282
0.12	.28376	.28874	.29444	.30176	.30862	.31654	.32486	.33416	.34426	.35460	.36382	.37288	.38452	.39522	.40468	.41592	.42472	.43422	.44378	.45320
0.13	.30166	.30626	.31152	.31844	.32496	.33242	.34028	.34924	.35872	.36872	.37764	.38632	.39762	.40792	.41696	.42776	.43626	.44550	.45482	.46388
0.14	.32004	.32434	.32924	.33580	.34204	.34890	.35640	.36496	.37376	.38318	.39174	.40022	.41110	.42102	.42974	.44004	.44824	.45712	.46600	.47472
0.15	.33764	.34162	.34614	.35220	.35822	.36460	.37180	.37978	.38818	.39716	.40538	.41348	.42392	.43340	.44186	.45180	.45972	.46836	.47698	.48544
0.16	.35262	.35642	.36060	.36628	.37198	.37814	.38494	.39258	.40058	.40902	.41680	.42470	.43462	.44382	.45206	.46170	.46944	.47788	.48638	.49466
0.17	.36866	.37222	.37610	.38156	.38692	.39270	.39906	.40616	.41372	.42178	.42934	.43678	.44630	.45526	.46322	.47270	.48026	.48844	.49656	.50456
0.18	.38524	.38856	.39212	.39724	.40208	.40754	.41338	.42028	.42748	.43510	.44226	.44952	.45872	.46720	.47472	.48396	.49118	.49900	.50680	.51446
0.19	.39916	.40230	.40562	.41042	.41502	.42030	.42588	.43240	.43922	.44666	.45360	.46058	.46940	.47744	.48472	.49362	.50072	.50824	.51574	.52316
0.20	.41422	.41706	.42014	.42466	.42902	.43398	.43926	.44544	.45200	.45914	.46582	.47248	.48092	.48866	.49566	.50430	.51124	.51846	.52568	.53290

Table D.5 Power tables of $CM - V$ against Gamma ditribution

Powers of $CM - V$ Sequential test against Gamma for $n = 15$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03312	.06312	.09098	.11848	.14346	.17078	.19366	.21502	.23784	.25952	.28174	.30088	.32132	.33900	.35764	.37606	.39404	.41084	.43026
0.02	.06756	.09540	.12126	.14582	.17060	.19258	.21734	.23826	.25768	.27862	.29872	.31886	.33646	.35494	.37090	.38776	.40464	.42096	.43634	.45446
0.03	.12582	.14698	.17112	.19254	.21498	.23478	.25770	.27708	.29816	.31424	.33284	.35160	.36792	.38514	.39990	.41568	.43128	.44662	.46082	.47780
0.04	.17552	.19538	.21468	.23364	.25344	.27160	.29252	.31024	.32696	.34456	.36206	.37966	.39488	.41074	.42468	.43958	.45418	.46858	.48198	.49802
0.05	.21812	.23572	.25304	.26998	.28802	.30460	.32412	.34028	.35572	.37176	.38824	.40472	.41906	.43390	.44692	.46102	.47494	.48864	.50124	.51624
0.06	.25552	.27108	.28690	.30164	.31820	.33332	.35130	.36644	.38092	.39622	.41168	.42728	.44084	.45478	.46708	.48044	.49362	.50672	.51860	.53276
0.07	.28812	.30190	.31612	.32946	.34472	.35900	.37562	.38984	.40346	.41790	.43228	.44708	.45998	.47318	.48484	.49762	.51016	.52278	.53406	.54752
0.08	.31562	.32820	.34108	.35326	.36742	.38094	.39644	.40984	.42264	.43602	.44972	.46384	.47612	.48872	.50006	.51236	.52444	.53648	.54714	.56012
0.09	.34358	.35500	.36688	.37778	.39088	.40360	.41818	.43082	.44292	.45568	.46876	.48222	.49372	.50570	.51632	.52794	.53952	.55084	.56106	.57358
0.10	.37162	.38178	.39252	.40238	.41448	.42602	.43982	.45160	.46294	.47506	.48728	.50006	.51086	.52242	.53286	.54370	.55472	.56534	.57530	.58728
0.11	.39714	.40634	.41622	.42538	.43626	.44698	.46002	.47108	.48182	.49324	.50476	.51702	.52716	.53806	.54790	.55844	.56894	.57904	.58866	.60024
0.12	.41860	.42682	.43584	.44440	.45460	.46460	.47708	.48764	.49808	.50892	.51994	.53184	.54142	.55176	.56118	.57136	.58144	.59118	.60026	.61138
0.13	.43964	.44730	.45550	.46350	.47304	.48254	.49422	.50438	.51436	.52462	.53512	.54624	.55542	.56534	.57432	.58408	.59376	.60302	.61176	.62256
0.14	.45820	.46544	.47308	.48078	.48966	.49868	.50980	.51936	.52878	.53846	.54828	.55884	.56756	.57712	.58586	.59524	.60442	.61322	.62180	.63216
0.15	.47676	.48352	.49070	.49798	.50630	.51476	.52524	.53432	.54328	.55264	.56188	.57198	.58028	.58932	.59770	.60660	.61538	.62366	.63184	.64166
0.16	.49514	.50158	.50838	.51508	.52274	.53072	.54072	.54924	.55760	.56642	.57514	.58474	.59282	.60162	.60970	.61810	.62654	.63446	.64234	.65192
0.17	.51228	.51814	.52454	.53070	.53778	.54524	.55472	.56280	.57070	.57914	.58746	.59642	.60406	.61248	.62024	.62816	.63626	.64400	.65170	.66106
0.18	.52816	.53376	.53984	.54572	.55244	.55950	.56844	.57628	.58374	.59178	.59974	.60822	.61564	.62364	.63110	.63858	.64640	.65378	.66126	.67034
0.19	.54368	.54890	.55466	.56000	.56638	.57310	.58156	.58922	.59638	.60402	.61168	.61968	.62686	.63452	.64178	.64886	.65638	.66350	.67072	.67952
0.20	.56056	.56538	.57060	.57546	.58138	.58776	.59582	.60304	.60988	.61706	.62428	.63178	.63870	.64592	.65282	.65962	.66690	.67368	.68054	.68886

Powers of $CM - V$ Sequential test against Gamma for $n = 20$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04684	.09038	.13390	.16892	.19928	.23364	.26774	.29848	.32450	.35182	.37688	.40082	.42382	.44562	.46872	.49040	.51178	.53208	.55090
0.02	.10732	.14478	.18026	.21694	.24726	.27344	.30322	.33306	.36012	.38298	.40686	.42916	.45034	.47042	.48970	.50990	.52912	.54800	.56588	.58252
0.03	.19222	.22286	.25288	.28428	.31072	.33362	.35992	.38600	.41012	.43020	.45160	.47192	.49110	.50932	.52674	.54500	.56234	.57914	.59526	.61020
0.04	.25428	.28092	.30664	.33388	.35754	.37808	.40226	.42624	.44822	.46682	.48618	.50498	.52260	.53942	.55548	.57224	.58832	.60402	.61890	.63246
0.05	.31002	.33342	.35634	.38040	.40166	.42008	.44196	.46328	.48338	.50002	.51810	.53542	.55176	.56726	.58198	.59752	.61228	.62664	.64058	.65350
0.06	.35734	.37800	.39826	.41964	.43854	.45508	.47502	.49472	.51310	.52854	.54530	.56130	.57638	.59072	.60446	.61900	.63272	.64620	.65906	.67100
0.07	.39918	.41744	.43552	.45434	.47146	.48630	.50418	.52218	.53932	.55392	.56960	.58442	.59866	.61196	.62480	.63828	.65100	.66376	.67576	.68706
0.08	.43502	.45138	.46728	.48436	.50022	.51364	.53028	.54714	.56288	.57624	.59076	.60472	.61786	.63052	.64242	.65510	.66696	.67892	.69034	.70102
0.09	.46624	.48106	.49530	.51086	.52534	.53776	.55302	.56874	.58354	.59594	.60978	.62280	.63520	.64704	.65832	.67034	.68158	.69266	.70362	.71358
0.10	.49346	.50720	.52024	.53486	.54802	.55972	.57366	.58822	.60214	.61354	.62648	.63902	.65068	.66180	.67246	.68378	.69446	.70510	.71534	.72488
0.11	.51894	.53180	.54366	.55716	.56940	.58026	.59330	.60674	.61982	.63018	.64228	.65402	.66494	.67552	.68584	.69662	.70666	.71678	.72656	.73556
0.12	.54456	.55648	.56904	.58122	.59214	.60190	.61386	.62634	.63844	.64814	.65964	.67056	.68072	.69070	.70032	.71058	.72024	.72974	.73874	.74702
0.13	.56756	.57858	.58848	.59966	.60978	.61894	.63026	.64192	.65312	.66216	.67316	.68338	.69310	.70250	.71174	.72160	.73066	.73984	.74834	.75636
0.14	.58748	.59774	.60706	.61750	.62686	.63554	.64596	.65698	.66740	.67576	.68622	.69600	.70518	.71404	.72276	.73224	.74080	.74956	.75770	.76548
0.15	.60682	.61634	.62470	.63458	.64320	.65130	.66128	.67154	.68124	.68908	.69888	.70822	.71690	.72516	.73348	.74248	.75044	.75882	.76648	.77406
0.16	.62660	.63560	.64342	.65250	.66042	.66784	.67714	.68662	.69586	.70388	.71210	.72096	.72904	.73684	.74464	.75302	.76062	.76866	.77598	.78316
0.17	.64322	.65156	.65898	.66738	.67478	.68180	.69052	.69940	.70774	.71466	.72330	.73160	.73928	.74656	.75396	.76194	.76920	.77684	.78394	.79086
0.18	.65892	.66682	.67352	.68110	.68796	.69454	.70278	.71102	.71882	.72528	.73342	.74128	.74854	.75540	.76240	.77008	.77706	.78424	.79112	.79780
0.19	.67406	.68154	.68770	.69464	.70092	.70724	.71488	.72276	.73010	.73620	.74364	.75106	.75788	.76430	.77106	.77838	.78510	.79200	.79852	.80484
0.20	.68920	.69632	.70216	.70860	.71438	.72040	.72736	.73488	.74178	.74742	.75432	.76124	.76764	.77376	.78018	.78708	.79352	.80016	.80630	.81234

Table D.5 (Continued)

Powers of $CM - V$ Sequential test against Gamma for $n = 25$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.06800	.12690	.17798	.22396	.26548	.30596	.34312	.37694	.41218	.44282	.47038	.49776	.52502	.54826	.57150	.59550	.61786	.63876	.65812
0.02	.15860	.21084	.25728	.29850	.33596	.36948	.40248	.43354	.46128	.49096	.51624	.53950	.56192	.58508	.60424	.62354	.64350	.66246	.67956	.69548
0.03	.26356	.30656	.34496	.38010	.41218	.44042	.46870	.49596	.51996	.54564	.56776	.58824	.60794	.62802	.64462	.66118	.67858	.69516	.71006	.72408
0.04	.35020	.38590	.41794	.44772	.47548	.49982	.52418	.54776	.56880	.59092	.61040	.62794	.64534	.66312	.67794	.69246	.70802	.72302	.73604	.74826
0.05	.41752	.44784	.47492	.50048	.52430	.54516	.56688	.58772	.60630	.62588	.64320	.65896	.67444	.69038	.70378	.71652	.73044	.74404	.75600	.76734
0.06	.46858	.49566	.51972	.54246	.56320	.58152	.60128	.62016	.63676	.65442	.66984	.68396	.69816	.71272	.72498	.73666	.74950	.76186	.77294	.78296
0.07	.50918	.53346	.55496	.57512	.59390	.61050	.62858	.64622	.66130	.67744	.69142	.70436	.71750	.73098	.74202	.75266	.76432	.77558	.78596	.79532
0.08	.54824	.57012	.58930	.60724	.62422	.63924	.65552	.67166	.68562	.69996	.71276	.72434	.73640	.74886	.75900	.76872	.77954	.79002	.79952	.80796
0.09	.58120	.60112	.61864	.63492	.65044	.66420	.67900	.69360	.70632	.71944	.73104	.74156	.75264	.76426	.77364	.78266	.79264	.80246	.81104	.81894
0.10	.61312	.63080	.64644	.66108	.67514	.68748	.70096	.71436	.72590	.73778	.74850	.75820	.76856	.77906	.78778	.79610	.80560	.81476	.82260	.82992
0.11	.64102	.65698	.67106	.68436	.69692	.70818	.72022	.73232	.74282	.75376	.76378	.77256	.78200	.79162	.79964	.80734	.81622	.82480	.83210	.83888
0.12	.66412	.67840	.69104	.70330	.71474	.72516	.73610	.74742	.75712	.76730	.77670	.78494	.79374	.80262	.81024	.81728	.82566	.83376	.84052	.84694
0.13	.68504	.69818	.70978	.72096	.73156	.74122	.75116	.76176	.77086	.78004	.78880	.79658	.80486	.81306	.82022	.82676	.83452	.84228	.84850	.85460
0.14	.70596	.71788	.72854	.73860	.74832	.75718	.76622	.77584	.78436	.79278	.80082	.80804	.81584	.82350	.83030	.83638	.84368	.85104	.85674	.86246
0.15	.72546	.73640	.74620	.75552	.76430	.77248	.78104	.78974	.79738	.80530	.81278	.81962	.82698	.83402	.84000	.84544	.85248	.85936	.86474	.87016
0.16	.74388	.75396	.76262	.77092	.77890	.78626	.79424	.80232	.80942	.81676	.82370	.82984	.83662	.84318	.84866	.85384	.86042	.86684	.87180	.87684
0.17	.76096	.77018	.77800	.78568	.79300	.79990	.80694	.81446	.82116	.82758	.83402	.83984	.84618	.85228	.85736	.86224	.86832	.87426	.87878	.88346
0.18	.77518	.78362	.79086	.79776	.80452	.81090	.81746	.82452	.83080	.83672	.84270	.84818	.85418	.85988	.86466	.86928	.87492	.88046	.88462	.88896
0.19	.78750	.79548	.80210	.80848	.81472	.82060	.82682	.83354	.83934	.84490	.85050	.85564	.86130	.86666	.87120	.87560	.88082	.88598	.88984	.89396
0.20	.79982	.80732	.81332	.81922	.82484	.83028	.83592	.84202	.84734	.85246	.85774	.86262	.86802	.87310	.87726	.88142	.88622	.89102	.89462	.89842

Powers of $CM - V$ Sequential test against Gamma for $n = 30$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.09422	.17192	.23294	.28728	.33400	.37984	.42342	.46322	.49806	.53126	.56332	.59202	.61938	.64514	.66874	.68906	.70886	.72656	.74470
0.02	.21880	.28642	.34472	.39040	.43122	.46534	.50056	.53434	.56522	.59212	.61764	.64252	.66472	.68830	.70722	.72556	.74136	.75698	.77080	.78522
0.03	.34394	.39876	.44672	.48384	.51734	.54594	.57488	.60266	.62790	.65014	.67122	.69198	.71104	.72920	.74668	.76206	.77578	.78884	.80056	.81254
0.04	.44230	.48732	.52682	.55728	.58544	.60902	.63292	.65624	.67788	.69710	.71488	.73280	.74886	.76440	.77926	.79270	.80432	.81540	.82524	.83552
0.05	.51068	.54868	.58220	.60892	.63292	.65330	.67396	.69476	.71338	.72982	.74532	.76096	.77466	.78844	.80134	.81312	.82338	.83320	.84176	.85088
0.06	.56342	.59654	.62518	.64824	.66964	.68784	.70526	.72372	.74008	.75444	.76824	.78228	.79456	.80668	.81804	.82856	.83800	.84686	.85442	.86244
0.07	.61238	.64038	.66500	.68516	.70384	.71938	.73502	.75152	.76572	.77866	.79072	.80328	.81410	.82508	.83526	.84460	.85300	.86092	.86736	.87436
0.08	.65148	.67620	.69796	.71512	.73152	.74540	.75938	.77424	.78722	.79892	.80944	.82046	.83016	.83978	.84880	.85740	.86502	.87208	.87784	.88420
0.09	.68252	.70448	.72348	.73878	.75344	.76584	.77842	.79196	.80402	.81460	.82408	.83442	.84312	.85186	.86010	.86792	.87488	.88130	.88644	.89232
0.10	.71172	.73134	.74826	.76128	.77454	.78562	.79696	.80906	.82006	.82966	.83798	.84740	.85536	.86328	.87076	.87776	.88416	.88982	.89470	.90010
0.11	.73360	.75158	.76712	.77896	.79076	.80084	.81116	.82232	.83236	.84116	.84884	.85746	.86484	.87218	.87910	.88570	.89174	.89692	.90138	.90624
0.12	.75590	.77218	.78626	.79700	.80780	.81668	.82578	.83572	.84510	.85326	.86016	.86808	.87496	.88170	.88818	.89432	.89986	.90460	.90866	.91314
0.13	.77360	.78850	.80136	.81130	.82092	.82904	.83744	.84662	.85534	.86294	.86928	.87666	.88294	.88910	.89508	.90076	.90600	.91036	.91420	.91830
0.14	.79220	.80558	.81698	.82586	.83466	.84208	.84960	.85776	.86552	.87272	.87868	.88538	.89112	.89678	.90232	.90748	.91252	.91656	.92012	.92384
0.15	.80904	.82094	.83116	.83898	.84702	.85396	.86080	.86802	.87512	.88164	.88708	.89332	.89844	.90376	.90884	.91360	.91828	.92194	.92522	.92874
0.16	.82252	.83354	.84284	.84998	.85746	.86396	.87022	.87662	.88306	.88930	.89420	.90004	.90486	.90990	.91472	.91898	.92344	.92678	.92972	.93306
0.17	.83432	.84436	.85302	.85962	.86658	.87262	.87834	.88430	.89030	.89598	.90052	.90592	.91040	.91500	.91950	.92348	.92780	.93096	.93374	.93680
0.18	.84724	.85664	.86434	.87040	.87676	.88200	.88704	.89232	.89788	.90300	.90726	.91218	.91630	.92050	.92476	.92854	.93234	.93518	.93770	.94060
0.19	.85900	.86760	.87466	.87988	.88582	.89044	.89512	.89998	.90510	.90960	.91350	.91824	.92212	.92588	.92978	.93314	.93666	.93928	.94168	.94446
0.20	.86918	.87706	.88346	.88834	.89388	.89814	.90234	.90684	.91144	.91572	.91928	.92362	.92724	.93080	.93436	.93754	.94058	.94294	.94508	.94766

Table D.5 (Continued)

Powers of $CM - V$ Sequential test against Gamma for $n = 35$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.12100	.21616	.28794	.35104	.40648	.45862	.50266	.54108	.57920	.61402	.64348	.67076	.69704	.72056	.74166	.76340	.78176	.79848	.81400
0.02	.26418	.34940	.41690	.46758	.51372	.55338	.59042	.62298	.65114	.67898	.70406	.72586	.74604	.76562	.78320	.79874	.81474	.82826	.84108	.85250
0.03	.42064	.48556	.53632	.57436	.61004	.64022	.66940	.69490	.71668	.73822	.75810	.77476	.79074	.80634	.82080	.83298	.84580	.85642	.86690	.87628
0.04	.52724	.57780	.61872	.64896	.67744	.70090	.72484	.74568	.76310	.78060	.79710	.81120	.82444	.83712	.84882	.85870	.86904	.87772	.88634	.89408
0.05	.60160	.64372	.67734	.70202	.72518	.74466	.76474	.78248	.79702	.81148	.82512	.83718	.84806	.85898	.86856	.87650	.88532	.89268	.90016	.90676
0.06	.66050	.69544	.72296	.74312	.76286	.77942	.79680	.81150	.82394	.83604	.84744	.85754	.86658	.87618	.88438	.89110	.89842	.90486	.91160	.91740
0.07	.70030	.73072	.75514	.77266	.78956	.80366	.81894	.83204	.84288	.85342	.86332	.87236	.88012	.88858	.89594	.90188	.90852	.91428	.92014	.92520
0.08	.73542	.76178	.78308	.79806	.81310	.82552	.83870	.84996	.85924	.86842	.87736	.88542	.89240	.90008	.90654	.91174	.91760	.92288	.92794	.93256
0.09	.76414	.78714	.80608	.81912	.83224	.84306	.85462	.86472	.87304	.88112	.88908	.89614	.90236	.90924	.91508	.91974	.92514	.93008	.93440	.93866
0.10	.78836	.80870	.82554	.83668	.84818	.85794	.86844	.87764	.88522	.89250	.89962	.90590	.91170	.91788	.92316	.92734	.93218	.93650	.94034	.94422
0.11	.80926	.82718	.84226	.85214	.86230	.87112	.88062	.88900	.89566	.90202	.90848	.91416	.91926	.92460	.92930	.93316	.93766	.94172	.94500	.94858
0.12	.82952	.84542	.85846	.86694	.87566	.88354	.89228	.90004	.90596	.91132	.91690	.92188	.92656	.93132	.93556	.93906	.94310	.94672	.94966	.95290
0.13	.84670	.86084	.87230	.87994	.88760	.89470	.90244	.90942	.91466	.91964	.92452	.92898	.93336	.93776	.94154	.94474	.94832	.95174	.95434	.95722
0.14	.86256	.87542	.88564	.89244	.89940	.90560	.91224	.91852	.92318	.92768	.93186	.93578	.93958	.94350	.94678	.94950	.95278	.95582	.95804	.96056
0.15	.87422	.88590	.89526	.90142	.90770	.91352	.91964	.92526	.92956	.93366	.93744	.94088	.94440	.94804	.95104	.95360	.95656	.95944	.96142	.96362
0.16	.88564	.89612	.90436	.91008	.91560	.92076	.92608	.93106	.93516	.93888	.94222	.94532	.94866	.95206	.95472	.95718	.95986	.96246	.96424	.96624
0.17	.89662	.90632	.91344	.91856	.92326	.92782	.93266	.93702	.94078	.94420	.94724	.95006	.95320	.95632	.95882	.96100	.96338	.96578	.96746	.96928
0.18	.90588	.91466	.92102	.92558	.92980	.93384	.93828	.94230	.94574	.94900	.95162	.95426	.95718	.96010	.96242	.96430	.96650	.96862	.97004	.97176
0.19	.91316	.92130	.92706	.93122	.93516	.93888	.94286	.94654	.94968	.95266	.95508	.95748	.96012	.96266	.96478	.96660	.96874	.97076	.97198	.97360
0.20	.92082	.92824	.93340	.93720	.94080	.94400	.94762	.95102	.95384	.95668	.95888	.96096	.96336	.96558	.96750	.96924	.97116	.97296	.97416	.97582

Powers of $CM - V$ Sequential test against Gamma for $n = 40$

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.14676	.25286	.34368	.42518	.47282	.52748	.57342	.61190	.65034	.68292	.71736	.74294	.76630	.78784	.80782	.82720	.84376	.85732	.86898
0.02	.31444	.41014	.48238	.54336	.59748	.62928	.66640	.69734	.72400	.75036	.77196	.79586	.81294	.82886	.84436	.85824	.87200	.88352	.89370	.90216
0.03	.48416	.55458	.60794	.65218	.69226	.71608	.74382	.76792	.78780	.80800	.82386	.84158	.85418	.86670	.87846	.88856	.89872	.90758	.91542	.92186
0.04	.59700	.65030	.69100	.72526	.75594	.77450	.79562	.81424	.82966	.84520	.85746	.87118	.88138	.89128	.90072	.90844	.91656	.92352	.92954	.93478
0.05	.66654	.71010	.74370	.77130	.79636	.81124	.82824	.84340	.85622	.86918	.87956	.89086	.89930	.90740	.91512	.92152	.92810	.93412	.93954	.94362
0.06	.71600	.75274	.78118	.80414	.82482	.83678	.85148	.86384	.87482	.88598	.89502	.90422	.91186	.91860	.92516	.93066	.93644	.94146	.94648	.95010
0.07	.76348	.79336	.81668	.83540	.85204	.86182	.87434	.88462	.89374	.90312	.91074	.91840	.92498	.93046	.93612	.94054	.94532	.94956	.95402	.95700
0.08	.79792	.82314	.84308	.85872	.87306	.88122	.89188	.90060	.90846	.91654	.92300	.92950	.93508	.93936	.94422	.94800	.95200	.95598	.95972	.96218
0.09	.82560	.84736	.86416	.87804	.89022	.89736	.90630	.91402	.92086	.92754	.93296	.93874	.94350	.94700	.95118	.95442	.95782	.96124	.96446	.96666
0.10	.85138	.86974	.88340	.89456	.90484	.91122	.91862	.92518	.93128	.93714	.94174	.94662	.95076	.95386	.95728	.95984	.96266	.96556	.96856	.97052
0.11	.87034	.88566	.89720	.90710	.91558	.92112	.92780	.93330	.93866	.94378	.94782	.95222	.95594	.95868	.96164	.96396	.96640	.96908	.97160	.97344
0.12	.88686	.90012	.91026	.91894	.92618	.93094	.93654	.94120	.94566	.94996	.95358	.95744	.96064	.96298	.96562	.96778	.96980	.97220	.97442	.97602
0.13	.89968	.91126	.92024	.92794	.93410	.93846	.94334	.94728	.95122	.95498	.95852	.96210	.96474	.96674	.96902	.97098	.97274	.97498	.97704	.97846
0.14	.91040	.92056	.92816	.93488	.94058	.94466	.94900	.95242	.95606	.95944	.96244	.96556	.96786	.96964	.97168	.97332	.97492	.97688	.97882	.98012
0.15	.91896	.92800	.93468	.94096	.94606	.94980	.95372	.95684	.96006	.96280	.96544	.96832	.97040	.97204	.97396	.97546	.97688	.97868	.98042	.98164
0.16	.92908	.93674	.94236	.94798	.95252	.95578	.95920	.96186	.96478	.96704	.96932	.97182	.97370	.97508	.97666	.97792	.97918	.98070	.98236	.98340
0.17	.93524	.94234	.94750	.95262	.95688	.95972	.96288	.96542	.96792	.96988	.97172	.97400	.97574	.97704	.97838	.97952	.98070	.98208	.98362	.98460
0.18	.94076	.94726	.95212	.95690	.96084	.96348	.96640	.96872	.97086	.97260	.97430	.97636	.97794	.97908	.98024	.98132	.98230	.98354	.98498	.98580
0.19	.94678	.95246	.95702	.96136	.96498	.96708	.96978	.97186	.97368	.97514	.97666	.97858	.98008	.98106	.98206	.98304	.98400	.98518	.98632	.98708
0.20	.95160	.95662	.96064	.96462	.96792	.96978	.97224	.97402	.97578	.97714	.97846	.98024	.98166	.98256	.98350	.98446	.98536	.98644	.98754	.98816

Table D.5 (Continued)

Powers of $CM - V$ Sequential test against Gamma for $n = 45$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.17018	.29764	.39944	.47666	.53810	.59418	.64282	.68168	.72064	.75494	.78230	.80534	.82700	.84646	.86188	.87554	.88916	.90128	.91164
0.02	.39680	.49634	.57114	.63210	.67668	.71386	.74710	.77628	.79998	.82338	.84350	.85990	.87410	.88722	.89976	.90904	.91714	.92582	.93366	.94012
0.03	.57366	.64318	.69516	.73692	.76850	.79400	.81770	.83776	.85428	.87034	.88412	.89632	.90610	.91548	.92474	.93158	.93722	.94402	.94984	.95436
0.04	.68030	.73214	.77064	.80132	.82418	.84332	.86152	.87628	.88896	.90074	.91110	.92022	.92740	.93480	.94148	.94664	.95044	.95552	.95996	.96364
0.05	.74684	.78672	.81748	.84108	.85946	.87474	.88922	.90074	.91044	.91996	.92818	.93518	.94076	.94678	.95228	.95624	.95928	.96354	.96698	.97014
0.06	.79930	.83044	.85536	.87372	.88822	.89998	.91124	.92052	.92822	.93562	.94168	.94730	.95148	.95598	.96052	.96364	.96604	.96934	.97218	.97460
0.07	.83280	.85906	.87980	.89490	.90660	.91636	.92548	.93364	.93968	.94562	.95072	.95540	.95868	.96244	.96610	.96850	.97070	.97352	.97576	.97784
0.08	.86018	.88182	.89914	.91200	.92170	.93020	.93768	.94450	.94938	.95440	.95858	.96224	.96516	.96856	.97176	.97372	.97544	.97782	.97974	.98140
0.09	.88498	.90294	.91696	.92702	.93518	.94196	.94810	.95354	.95754	.96168	.96522	.96830	.97058	.97342	.97594	.97736	.97882	.98086	.98250	.98410
0.10	.90072	.91666	.92876	.93744	.94438	.94996	.95530	.96008	.96354	.96730	.97048	.97316	.97494	.97738	.97956	.98072	.98198	.98384	.98534	.98666
0.11	.91312	.92678	.93720	.94490	.95088	.95570	.96042	.96454	.96760	.97070	.97354	.97594	.97748	.97966	.98162	.98266	.98374	.98552	.98684	.98800
0.12	.92614	.93770	.94630	.95298	.95816	.96232	.96632	.96964	.97226	.97470	.97726	.97936	.98066	.98248	.98406	.98484	.98594	.98760	.98864	.98960
0.13	.93708	.94692	.95416	.95954	.96398	.96762	.97100	.97390	.97612	.97822	.98044	.98252	.98342	.98496	.98626	.98696	.98782	.98918	.99012	.99100
0.14	.94480	.95374	.95974	.96448	.96840	.97146	.97440	.97688	.97876	.98050	.98256	.98422	.98520	.98656	.98778	.98836	.98912	.99026	.99108	.99192
0.15	.95062	.95856	.96404	.96800	.97146	.97426	.97698	.97924	.98096	.98254	.98422	.98578	.98674	.98796	.98906	.98964	.99028	.99128	.99192	.99262
0.16	.95634	.96336	.96812	.97166	.97470	.97720	.97946	.98154	.98296	.98434	.98582	.98722	.98812	.98920	.99022	.99078	.99140	.99236	.99292	.99356
0.17	.96082	.96716	.97150	.97464	.97734	.97954	.98166	.98354	.98468	.98598	.98724	.98838	.98908	.99016	.99104	.99156	.99206	.99298	.99354	.99414
0.18	.96488	.97066	.97458	.97734	.97994	.98182	.98378	.98540	.98630	.98744	.98860	.98944	.99006	.99102	.99184	.99224	.99268	.99352	.99402	.99460
0.19	.96930	.97424	.97758	.97996	.98214	.98392	.98554	.98700	.98778	.98878	.98992	.99062	.99120	.99204	.99280	.99314	.99346	.99424	.99466	.99512
0.20	.97214	.97688	.97982	.98196	.98404	.98544	.98686	.98830	.98898	.98974	.99066	.99134	.99190	.99272	.99344	.99374	.99404	.99482	.99518	.99556

Powers of $CM - V$ Sequential test against Gamma for $n = 50$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.21208	.34638	.45260	.53574	.60470	.66186	.70642	.74538	.77734	.80768	.83164	.85320	.87122	.88668	.89844	.91044	.92120	.93064	.93896
0.02	.43734	.55242	.62970	.68632	.73234	.77166	.80336	.82810	.84922	.86778	.88550	.89964	.91208	.92214	.93098	.93784	.94530	.95088	.95642	.96162
0.03	.61482	.69272	.74606	.78486	.81612	.84252	.86350	.88074	.89526	.90794	.91950	.93002	.93844	.94510	.95102	.95544	.96068	.96460	.96850	.97198
0.04	.71312	.77096	.81020	.83930	.86286	.88216	.89768	.90990	.92068	.92992	.93864	.94652	.95300	.95798	.96220	.96562	.96968	.97234	.97534	.97784
0.05	.78834	.82998	.85892	.87986	.89704	.91194	.92324	.93238	.94052	.94778	.95410	.96044	.96504	.96892	.97196	.97456	.97756	.97962	.98184	.98360
0.06	.83590	.86808	.89036	.90654	.91994	.93152	.94006	.94706	.95328	.95898	.96350	.96838	.97202	.97502	.97746	.97954	.98202	.98326	.98498	.98636
0.07	.86900	.89492	.91290	.92546	.93602	.94518	.95212	.95734	.96206	.96678	.97050	.97472	.97758	.97996	.98188	.98342	.98524	.98622	.98764	.98866
0.08	.89698	.91730	.93166	.94132	.94962	.95670	.96202	.96606	.96974	.97378	.97678	.97988	.98238	.98408	.98564	.98674	.98832	.98914	.99030	.99100
0.09	.91578	.93216	.94414	.95124	.95820	.96428	.96824	.97146	.97430	.97772	.98030	.98300	.98516	.98660	.98790	.98890	.99040	.99110	.99186	.99256
0.10	.93182	.94506	.95506	.96094	.96630	.97112	.97416	.97646	.97882	.98154	.98366	.98562	.98758	.98880	.98986	.99056	.99186	.99246	.99320	.99378
0.11	.94306	.95394	.96230	.96736	.97188	.97614	.97864	.98058	.98244	.98462	.98628	.98782	.98958	.99054	.99142	.99202	.99304	.99364	.99422	.99470
0.12	.94986	.95938	.96704	.97148	.97558	.97914	.98132	.98312	.98478	.98680	.98810	.98924	.99068	.99146	.99232	.99270	.99368	.99424	.99478	.99516
0.13	.95688	.96524	.97178	.97550	.97900	.98190	.98382	.98536	.98680	.98844	.98958	.99070	.99196	.99268	.99340	.99370	.99446	.99496	.99532	.99570
0.14	.96154	.96894	.97466	.97804	.98112	.98368	.98540	.98686	.98814	.98952	.99054	.99146	.99250	.99310	.99378	.99404	.99460	.99528	.99560	.99596
0.15	.96580	.97232	.97746	.98048	.98322	.98550	.98706	.98838	.98946	.99064	.99158	.99246	.99326	.99386	.99452	.99474	.99540	.99584	.99618	.99654
0.16	.96834	.97434	.97922	.98202	.98458	.98666	.98816	.98940	.99034	.99130	.99204	.99292	.99366	.99426	.99490	.99512	.99578	.99624	.99656	.99692
0.17	.97038	.97598	.98058	.98328	.98560	.98756	.98892	.99008	.99086	.99178	.99240	.99324	.99394	.99454	.99516	.99538	.99598	.99644	.99676	.99712
0.18	.97482	.97954	.98344	.98570	.98764	.98930	.99046	.99148	.99218	.99290	.99348	.99420	.99476	.99528	.99584	.99598	.99646	.99678	.99706	.99742
0.19	.98110	.98480	.98782	.98942	.99084	.99214	.99310	.99386	.99438	.99496	.99534	.99582	.99624	.99664	.99704	.99710	.99744	.99762	.99782	.99798
0.20	.98348	.98686	.98940	.99074	.99198	.99306	.99382	.99448	.99484	.99540	.99578	.99624	.99664	.99700	.99740	.99744	.99778	.99790	.99810	.99826

Table D.5 (Continued)

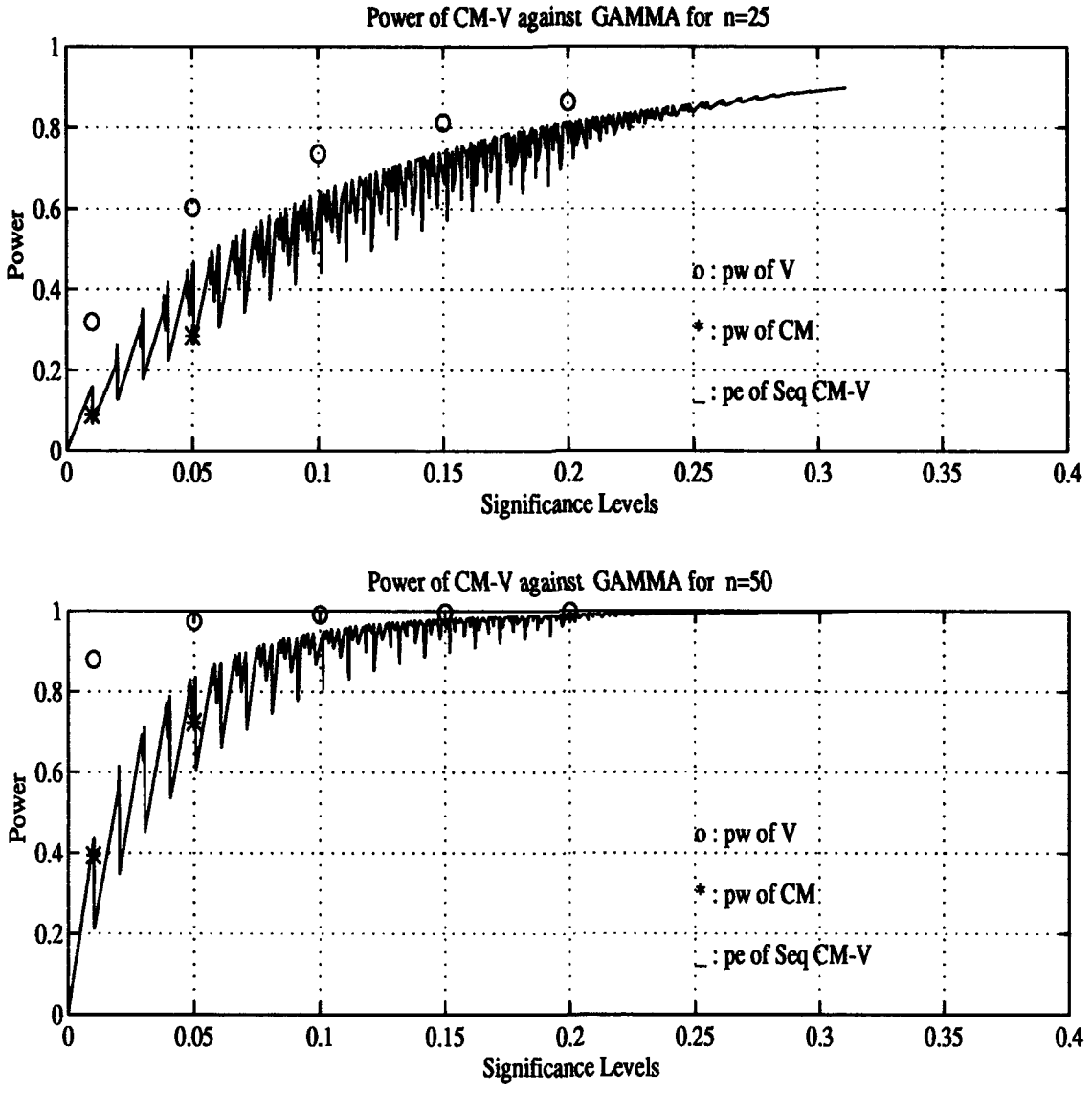

Figure D.4 Power comparisons of $CM - V$ against Gamma

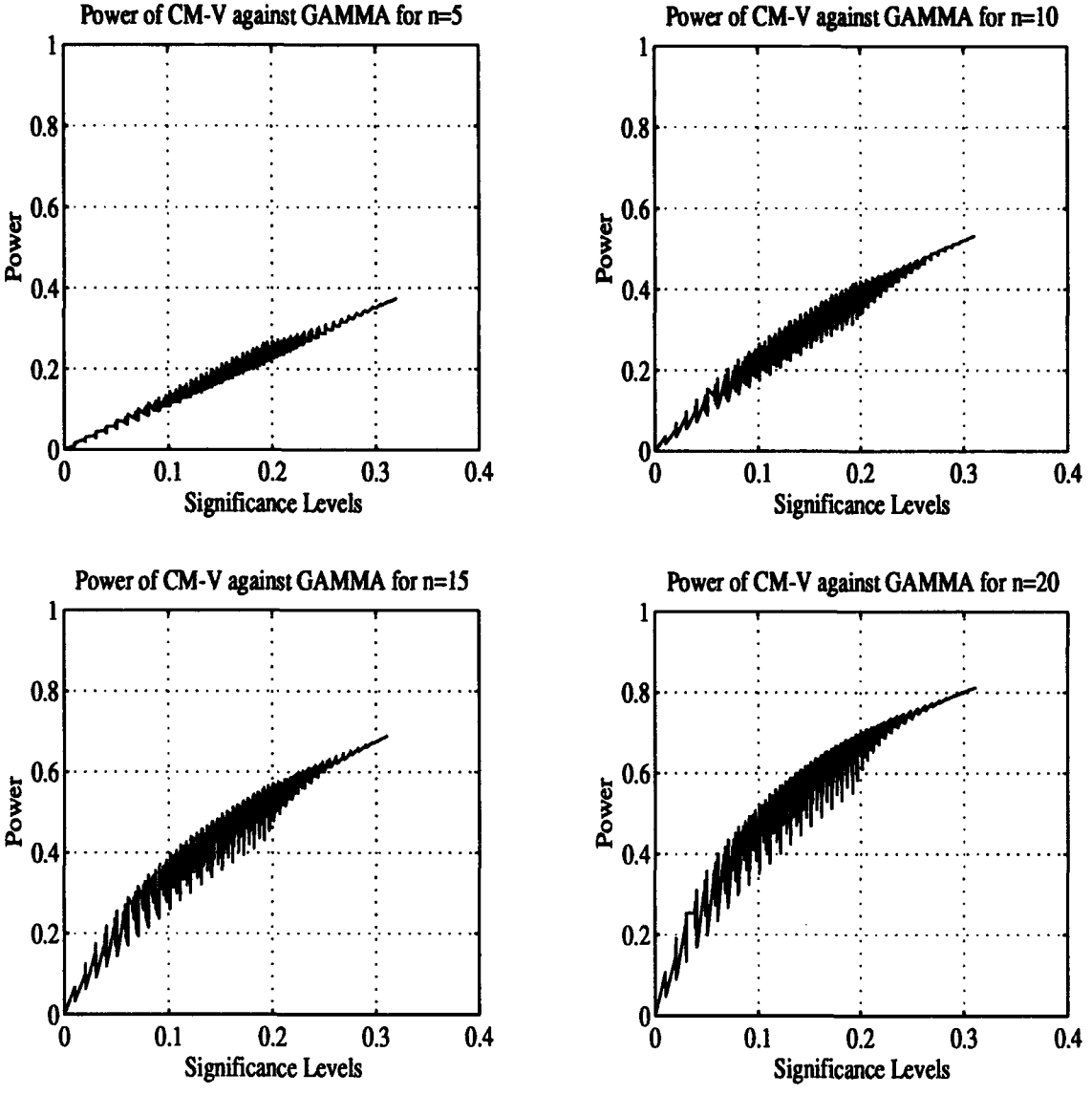

Figure D.4 (Continued)

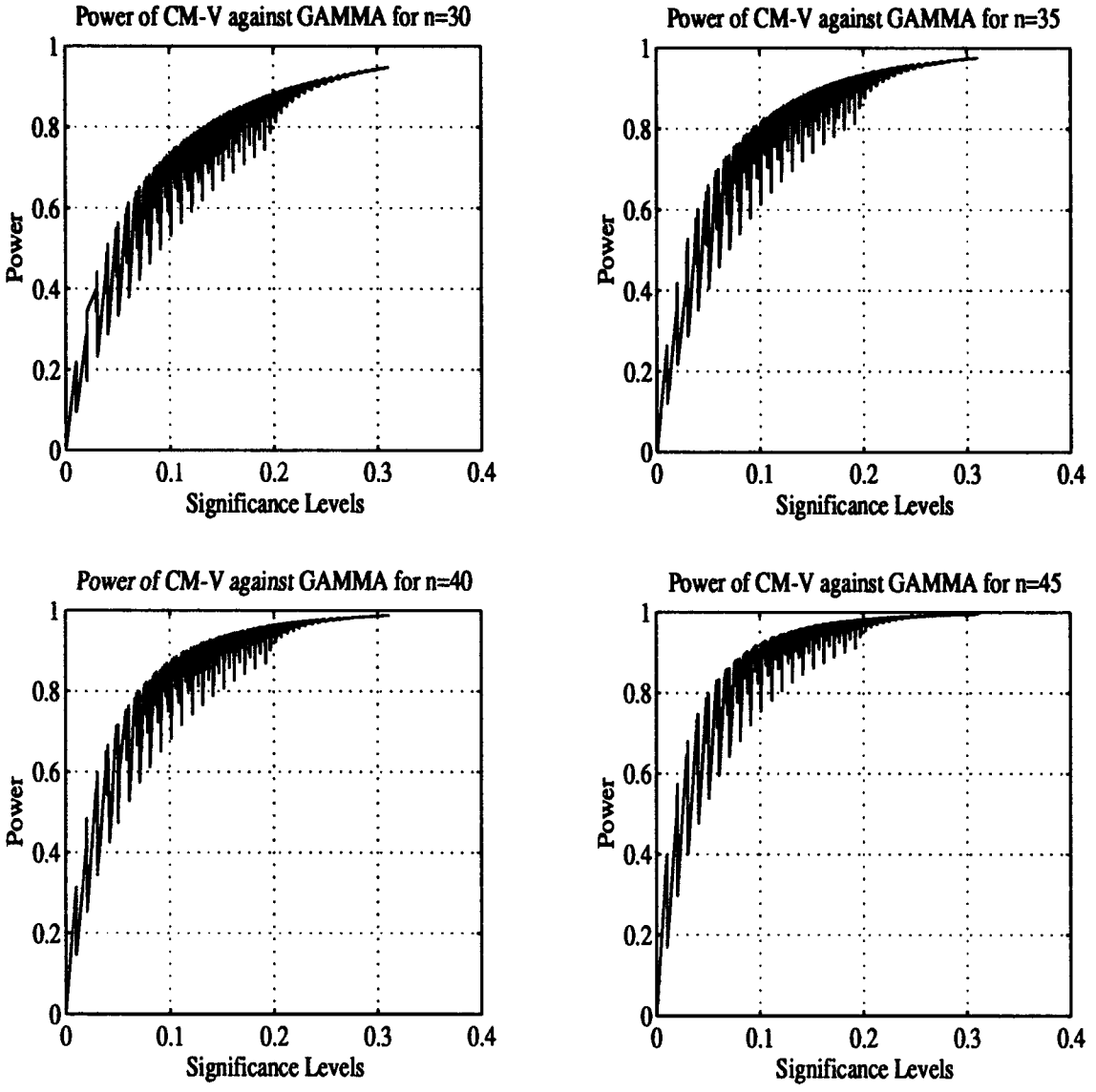

Figure D.4 (Continued)

Powers of $CM - V$ Sequential test against Weibull for $n = 5$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00670	.01354	.01996	.02708	.03434	.04194	.04960	.05794	.06664	.07524	.08438	.09322	.10312	.11286	.12194	.13158	.14160	.15090	.16000
0.02	.01570	.02200	.02842	.03458	.04128	.04820	.05528	.06252	.07050	.07902	.08730	.09616	.10478	.11438	.12368	.13240	.14178	.15140	.16034	.16926
0.03	.03024	.03604	.04218	.04802	.05446	.06112	.06800	.07462	.08242	.09078	.09878	.10736	.11564	.12504	.13422	.14272	.15192	.16136	.16998	.17876
0.04	.04440	.04968	.05548	.06104	.06728	.07372	.08038	.08692	.09432	.10234	.10994	.11830	.12626	.13538	.14434	.15272	.16176	.17102	.17946	.18806
0.05	.05702	.06194	.06760	.07282	.07874	.08494	.09124	.09762	.10480	.11260	.12002	.12812	.13592	.14478	.15354	.16182	.17058	.17972	.18788	.19622
0.06	.07136	.07594	.08126	.08616	.09176	.09764	.10370	.10982	.11672	.12432	.13158	.13940	.14704	.15572	.16428	.17226	.18062	.18976	.19772	.20582
0.07	.08478	.08908	.09398	.09870	.10404	.10974	.11564	.12148	.12812	.13542	.14240	.15004	.15746	.16588	.17430	.18208	.19042	.19918	.20686	.21466
0.08	.09654	.10036	.10494	.10944	.11482	.12006	.12566	.13124	.13772	.14486	.15172	.15918	.16636	.17450	.18274	.19034	.19840	.20704	.21482	.22228
0.09	.11000	.11356	.11794	.12228	.12712	.13246	.13776	.14316	.14942	.15620	.16278	.17002	.17702	.18494	.19290	.20040	.20836	.21660	.22386	.23150
0.10	.12290	.12610	.13022	.13434	.13896	.14414	.14918	.15440	.16040	.16698	.17334	.18044	.18730	.19500	.20282	.21004	.21776	.22594	.23304	.24050
0.11	.13702	.13990	.14368	.14782	.15180	.15680	.16158	.16652	.17244	.17884	.18502	.19182	.19852	.20582	.21350	.22050	.22804	.23594	.24278	.25002
0.12	.15098	.15360	.15704	.16062	.16466	.16944	.17402	.17878	.18442	.19046	.19638	.20288	.20934	.21638	.22392	.23064	.23782	.24558	.25232	.25930
0.13	.16322	.16552	.16854	.17194	.17582	.18030	.18478	.18924	.19468	.20052	.20626	.21256	.21890	.22582	.23298	.23954	.24648	.25404	.26062	.26742
0.14	.17662	.17860	.18140	.18454	.18832	.19268	.19690	.20112	.20638	.21202	.21760	.22370	.22986	.23652	.24320	.24954	.25632	.26356	.26994	.27658
0.15	.18920	.19092	.19354	.19650	.20012	.20414	.20808	.21210	.21722	.22260	.22794	.23384	.23990	.24634	.25288	.25900	.26562	.27260	.27876	.28512
0.16	.20258	.20412	.20652	.20930	.21274	.21658	.22018	.22404	.22888	.23406	.23928	.24500	.25068	.25712	.26336	.26932	.27566	.28242	.28834	.29450
0.17	.21494	.21634	.21850	.22110	.22436	.22804	.23148	.23520	.23992	.24494	.25002	.25552	.26106	.26716	.27320	.27900	.28514	.29162	.29750	.30334
0.18	.22728	.22858	.23052	.23282	.23586	.23928	.24254	.24614	.25062	.25538	.26022	.26558	.27084	.27674	.28266	.28826	.29424	.30044	.30612	.31178
0.19	.24010	.24126	.24294	.24506	.24782	.25100	.25412	.25754	.26186	.26642	.27100	.27618	.28124	.28694	.29266	.29816	.30400	.31000	.31554	.32102
0.20	.25294	.25394	.25558	.25754	.26014	.26292	.26592	.26910	.27330	.27768	.28204	.28692	.29180	.29724	.30288	.30812	.31378	.31962	.32494	.33026

Powers of $CM - V$ Sequential test against Weibull for $n = 10$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00514	.01134	.01782	.02488	.03178	.03974	.04806	.05658	.06492	.07358	.08224	.09320	.10318	.11280	.12414	.13486	.14610	.15630	.16722
0.02	.03026	.03438	.03966	.04518	.05124	.05726	.06454	.07204	.07966	.08708	.09492	.10292	.11304	.12198	.13092	.14122	.15106	.16128	.17088	.18110
0.03	.05590	.05962	.06396	.06876	.07400	.07912	.08570	.09256	.09960	.10626	.11348	.12088	.13012	.13842	.14658	.15632	.16544	.17512	.18414	.19374
0.04	.08050	.08372	.08760	.09186	.09658	.10112	.10698	.11320	.11968	.12582	.13254	.13942	.14782	.15578	.16328	.17234	.18088	.19002	.19848	.20768
0.05	.10504	.10784	.11116	.11476	.11896	.12294	.12838	.13388	.13966	.14534	.15156	.15786	.16576	.17310	.18022	.18882	.19688	.20564	.21388	.22238
0.06	.12844	.13090	.13394	.13712	.14092	.14446	.14938	.15458	.16000	.16510	.17072	.17674	.18410	.19092	.19738	.20540	.21292	.22132	.22922	.23704
0.07	.15138	.15358	.15624	.15910	.16254	.16588	.17042	.17520	.18020	.18498	.19014	.19580	.20258	.20904	.21512	.22270	.22988	.23770	.24516	.25254
0.08	.17148	.17356	.17600	.17862	.18164	.18476	.18892	.19336	.19802	.20258	.20732	.21256	.21884	.22504	.23074	.23790	.24446	.25204	.25906	.26612
0.09	.19152	.19344	.19566	.19802	.20090	.20384	.20770	.21188	.21610	.22044	.22492	.22976	.23568	.24142	.24666	.25344	.25982	.26704	.27376	.28044
0.10	.21008	.21182	.21394	.21616	.21870	.22144	.22498	.22878	.23272	.23672	.24080	.24538	.25100	.25658	.26146	.26784	.27382	.28078	.28720	.29356
0.11	.22848	.23014	.23212	.23418	.23648	.23894	.24226	.24572	.24932	.25308	.25700	.26124	.26656	.27188	.27680	.28256	.28824	.29484	.30104	.30698
0.12	.24584	.24748	.24934	.25122	.25330	.25564	.25874	.26192	.26542	.26892	.27260	.27664	.28168	.28668	.29120	.29688	.30228	.30858	.31446	.31998
0.13	.26212	.26370	.26544	.26720	.26918	.27142	.27430	.27728	.28072	.28398	.28744	.29128	.29600	.30076	.30506	.31042	.31552	.32140	.32700	.33214
0.14	.27786	.27936	.28098	.28262	.28452	.28658	.28928	.29210	.29536	.29838	.30164	.30530	.30974	.31422	.31820	.32328	.32812	.33384	.33922	.34410
0.15	.29396	.29542	.29692	.29852	.30036	.30232	.30492	.30758	.31066	.31356	.31660	.32002	.32430	.32862	.33242	.33708	.34156	.34712	.35214	.35676
0.16	.30924	.31066	.31212	.31364	.31530	.31708	.31956	.32210	.32498	.32774	.33062	.33388	.33798	.34222	.34590	.35044	.35470	.36004	.36488	.36934
0.17	.32550	.32688	.32828	.32972	.33118	.33294	.33524	.33762	.34036	.34298	.34588	.34876	.35272	.35672	.36026	.36480	.36884	.37376	.37840	.38270
0.18	.34204	.34338	.34464	.34602	.34736	.34908	.35118	.35336	.35580	.35820	.36078	.36376	.36750	.37138	.37480	.37884	.38262	.38776	.39210	.39612
0.19	.35616	.35746	.35866	.35994	.36118	.36282	.36486	.36682	.36908	.37140	.37388	.37666	.38014	.38374	.38704	.39092	.39448	.39940	.40350	.40728
0.20	.37056	.37182	.37296	.37422	.37538	.37696	.37888	.38076	.38292	.38508	.38742	.39014	.39354	.39698	.40012	.40384	.40752	.41208	.41594	.41952

Table D.6 Power tables of $CM - V$ against Weibull ditribution

Powers of $CM - V$ Sequential test against Weibull for $n = 15$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00622	.01290	.01990	.02680	.03470	.04360	.05184	.06070	.07028	.08088	.09306	.10356	.11534	.12738	.13900	.15216	.16460	.17620	.19002
0.02	.04942	.05464	.05994	.06592	.07160	.07814	.08566	.09270	.10036	.10884	.11790	.12840	.13774	.14828	.15886	.16914	.18068	.19178	.20200	.21428
0.03	.09386	.09852	.10292	.10806	.11294	.11848	.12498	.13122	.13782	.14502	.15346	.16276	.17092	.18014	.18952	.19870	.20884	.21908	.22840	.23958
0.04	.13332	.13758	.14130	.14586	.15010	.15502	.16072	.16628	.17214	.17840	.18606	.19434	.20170	.20998	.21842	.22666	.23584	.24500	.25340	.26386
0.05	.16750	.17140	.17462	.17886	.18270	.18712	.19220	.19730	.20258	.20824	.21518	.22264	.22910	.23672	.24454	.25198	.26064	.26912	.27668	.28606
0.06	.19888	.20270	.20566	.20948	.21284	.21682	.22142	.22616	.23102	.23602	.24220	.24894	.25476	.26166	.26886	.27564	.28360	.29148	.29854	.30716
0.07	.22874	.23236	.23514	.23856	.24160	.24536	.24968	.25394	.25834	.26284	.26854	.27438	.27970	.28606	.29272	.29876	.30606	.31344	.32002	.32810
0.08	.25388	.25732	.25994	.26316	.26594	.26940	.27342	.27740	.28152	.28582	.29124	.29678	.30184	.30764	.31382	.31958	.32644	.33328	.33944	.34688
0.09	.28054	.28364	.28638	.28934	.29194	.29506	.29874	.30228	.30598	.30986	.31492	.32014	.32480	.33026	.33606	.34152	.34776	.35408	.35986	.36680
0.10	.30662	.30976	.31224	.31500	.31754	.32048	.32390	.32710	.33046	.33394	.33858	.34332	.34772	.35278	.35820	.36330	.36916	.37520	.38046	.38696
0.11	.33072	.33376	.33608	.33866	.34104	.34370	.34694	.34998	.35316	.35630	.36052	.36494	.36912	.37390	.37894	.38382	.38898	.39482	.39956	.40648
0.12	.35124	.35428	.35644	.35888	.36114	.36366	.36660	.36944	.37230	.37524	.37914	.38334	.38736	.39192	.39676	.40104	.40624	.41130	.41590	.42158
0.13	.37168	.37456	.37670	.37902	.38118	.38362	.38634	.38900	.39166	.39432	.39788	.40176	.40558	.40988	.41444	.41840	.42326	.42786	.43218	.43782
0.14	.39052	.39324	.39530	.39744	.39944	.40174	.40436	.40680	.40932	.41176	.41508	.41878	.42240	.42636	.43074	.43446	.43916	.44348	.44768	.45272
0.15	.40940	.41202	.41404	.41608	.41802	.42010	.42256	.42480	.42722	.42936	.43240	.43596	.43926	.44298	.44708	.45058	.45508	.45912	.46310	.46780
0.16	.42900	.43150	.43346	.43536	.43716	.43906	.44130	.44334	.44560	.44762	.45042	.45370	.45682	.46024	.46408	.46740	.47158	.47526	.47902	.48336
0.17	.44710	.44952	.45142	.45326	.45492	.45672	.45890	.46080	.46298	.46490	.46752	.47062	.47364	.47686	.48058	.48368	.48758	.49098	.49460	.49872
0.18	.46312	.46544	.46724	.46890	.47042	.47210	.47412	.47588	.47786	.47966	.48218	.48508	.48792	.49096	.49448	.49744	.50116	.50436	.50788	.51184
0.19	.47844	.48070	.48244	.48406	.48548	.48714	.48906	.49078	.49254	.49432	.49676	.49960	.50224	.50514	.50844	.51126	.51476	.51778	.52118	.52486
0.20	.49404	.49626	.49796	.49954	.50092	.50250	.50434	.50598	.50760	.50932	.51170	.51440	.51696	.51970	.52286	.52544	.52876	.53162	.53484	.53834

Powers of $CM - V$ Sequential test against Weibull for $n = 20$

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00580	.01272	.02154	.03126	.04012	.05154	.06392	.07618	.08814	.10218	.11466	.12938	.14324	.15704	.17326	.18800	.20470	.22204	.23796
0.02	.07874	.08334	.08910	.09644	.10458	.11208	.12162	.13174	.14164	.15128	.16288	.17316	.18538	.19718	.20856	.22218	.23456	.24860	.26340	.27656
0.03	.14256	.14656	.15164	.15794	.16492	.17106	.17910	.18750	.19588	.20398	.21400	.22274	.23322	.24346	.25318	.26512	.27600	.28822	.30128	.31266
0.04	.19778	.20130	.20568	.21092	.21700	.22234	.22946	.23680	.24412	.25106	.25996	.26784	.27698	.28622	.29470	.30516	.31488	.32556	.33694	.34692
0.05	.24552	.24872	.25274	.25748	.26284	.26768	.27412	.28050	.28702	.29328	.30104	.30798	.31640	.32458	.33214	.34134	.35006	.35952	.36938	.37818
0.06	.28438	.28746	.29116	.29552	.30046	.30476	.31052	.31638	.32232	.32800	.33500	.34146	.34898	.35652	.36342	.37172	.37954	.38820	.39722	.40500
0.07	.32066	.32366	.32706	.33114	.33570	.33968	.34498	.35026	.35558	.36072	.36714	.37304	.37988	.38664	.39282	.40032	.40746	.41530	.42352	.43050
0.08	.35136	.35422	.35744	.36124	.36552	.36918	.37426	.37906	.38406	.38874	.39462	.40018	.40662	.41298	.41868	.42560	.43202	.43930	.44690	.45336
0.09	.37884	.38154	.38450	.38808	.39212	.39550	.40038	.40478	.40950	.41396	.41946	.42456	.43050	.43642	.44166	.44824	.45418	.46094	.46812	.47416
0.10	.40556	.40818	.41100	.41436	.41818	.42128	.42596	.43018	.43452	.43870	.44384	.44852	.45406	.45960	.46450	.47052	.47584	.48204	.48860	.49418
0.11	.42898	.43138	.43402	.43722	.44084	.44380	.44826	.45216	.45622	.46006	.46468	.46906	.47420	.47930	.48374	.48956	.49442	.50014	.50630	.51158
0.12	.45312	.45540	.45792	.46088	.46432	.46716	.47138	.47506	.47882	.48240	.48670	.49070	.49548	.50032	.50432	.50972	.51422	.51982	.52530	.53020
0.13	.47312	.47530	.47768	.48044	.48368	.48636	.49036	.49366	.49726	.50066	.50468	.50846	.51296	.51746	.52124	.52622	.53052	.53564	.54100	.54566
0.14	.49404	.49612	.49844	.50104	.50408	.50664	.51042	.51360	.51688	.52010	.52398	.52762	.53190	.53618	.53962	.54440	.54842	.55312	.55804	.56232
0.15	.51456	.51658	.51876	.52124	.52418	.52660	.53016	.53316	.53632	.53938	.54300	.54638	.55026	.55424	.55758	.56202	.56580	.57030	.57478	.57864
0.16	.53412	.53596	.53812	.54044	.54322	.54554	.54890	.55178	.55478	.55756	.56092	.56416	.56784	.57162	.57476	.57902	.58262	.58684	.59104	.59476
0.17	.55180	.55364	.55574	.55798	.56060	.56284	.56610	.56870	.57154	.57418	.57738	.58050	.58396	.58758	.59058	.59460	.59794	.60190	.60580	.60934
0.18	.56762	.56942	.57150	.57368	.57620	.57840	.58146	.58386	.58644	.58898	.59204	.59490	.59824	.60172	.60458	.60840	.61160	.61544	.61914	.62240
0.19	.58528	.58700	.58908	.59118	.59364	.59578	.59872	.60104	.60342	.60578	.60870	.61138	.61450	.61764	.62038	.62388	.62690	.63034	.63394	.63694
0.20	.60160	.60324	.60524	.60728	.60966	.61164	.61434	.61662	.61888	.62112	.62394	.62656	.62954	.63244	.63488	.63820	.64108	.64438	.64786	.65046

Table D.6 (Continued)

Powers of $CM - V$ Sequential test against Weibull for n = 25

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00676	.01470	.02414	.03526	.04622	.05964	.07248	.08610	.10096	.11676	.13450	.15222	.17064	.18824	.20650	.22732	.24860	.26902	.29032
0.02	.11180	.11722	.12358	.13156	.14022	.14898	.15960	.16954	.18082	.19304	.20548	.21968	.23368	.24860	.26324	.27830	.29494	.31160	.32772	.34422
0.03	.19212	.19710	.20252	.20952	.21684	.22452	.23358	.24228	.25180	.26228	.27288	.28466	.29660	.30946	.32206	.33482	.34896	.36322	.37852	.39034
0.04	.26220	.26684	.27166	.27776	.28418	.29084	.29862	.30620	.31442	.32356	.33262	.34280	.35310	.36422	.37522	.38608	.39812	.41066	.42190	.43378
0.05	.32074	.32504	.32926	.33460	.34026	.34614	.35296	.35958	.36682	.37474	.38292	.39230	.40130	.41108	.42064	.43034	.44102	.45164	.46138	.47148
0.06	.36524	.36924	.37316	.37822	.38352	.38906	.39522	.40120	.40776	.41488	.42232	.43076	.43880	.44758	.45634	.46510	.47488	.48440	.49308	.50196
0.07	.40252	.40630	.41006	.41478	.41966	.42478	.43034	.43578	.44184	.44848	.45520	.46284	.46998	.47788	.48588	.49400	.50304	.51162	.51956	.52762
0.08	.43962	.44310	.44668	.45096	.45538	.46004	.46534	.47020	.47584	.48212	.48824	.49514	.50144	.50860	.51600	.52338	.53150	.53926	.54648	.55374
0.09	.47180	.47514	.47844	.48242	.48654	.49088	.49582	.50024	.50548	.51116	.51694	.52326	.52910	.53578	.54270	.54958	.55714	.56402	.57070	.57724
0.10	.50326	.50640	.50948	.51322	.51718	.52136	.52588	.52998	.53478	.54000	.54520	.55118	.55648	.56274	.56906	.57540	.58224	.58856	.59460	.60058
0.11	.53354	.53642	.53928	.54286	.54650	.55024	.55444	.55824	.56266	.56734	.57210	.57754	.58234	.58824	.59402	.59968	.60596	.61172	.61726	.62256
0.12	.56720	.56988	.57258	.57592	.57926	.58296	.58692	.59042	.59458	.59888	.60328	.60848	.61382	.61912	.62480	.63008	.63524	.64020	.64502	.64974
0.13	.59824	.60078	.60338	.60666	.60978	.61334	.61712	.62056	.62436	.62832	.63234	.63722	.64196	.64696	.65206	.65714	.66232	.66738	.67234	.67710
0.14	.62690	.62936	.63186	.63492	.63790	.64134	.64500	.64836	.65208	.65598	.65996	.66472	.66934	.67424	.67922	.68418	.68924	.69418	.69902	.70376
0.15	.65210	.65446	.65686	.65984	.66274	.66606	.66960	.67286	.67650	.68032	.68422	.68886	.69338	.69818	.70304	.70788	.71282	.71766	.72240	.72704
0.16	.67416	.67644	.67876	.68164	.68446	.68768	.69112	.69430	.69784	.70158	.70540	.70994	.71438	.71908	.72384	.72858	.73342	.73816	.74280	.74734
0.17	.69324	.69544	.69768	.70046	.70320	.70634	.70970	.71280	.71626	.71992	.72366	.72812	.73248	.73710	.74178	.74644	.75118	.75582	.76036	.76480
0.18	.70962	.71176	.71394	.71664	.71930	.72236	.72564	.72866	.73204	.73562	.73928	.74366	.74794	.75248	.75708	.76166	.76630	.77084	.77528	.77962
0.19	.72360	.72568	.72780	.73042	.73300	.73598	.73918	.74214	.74544	.74894	.75252	.75682	.76102	.76548	.76998	.77448	.77902	.78346	.78780	.79204
0.20	.73546	.73748	.73954	.74208	.74458	.74748	.75060	.75350	.75672	.76014	.76364	.76786	.77198	.77636	.78078	.78520	.78964	.79398	.79822	.80236

Powers of $CM - V$ Sequential test against Weibull for n = 30

CM α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00826	.01816	.02958	.04240	.05620	.07302	.08936	.10820	.12762	.14792	.16942	.19088	.21298	.23544	.25858	.27934	.30328	.32832	.34956
0.02	.16088	.16762	.17548	.18442	.19426	.20492	.21808	.23096	.24536	.26004	.27516	.29190	.30774	.32394	.34126	.35814	.37508	.39114	.40710	.42510
0.03	.25828	.26422	.27082	.27844	.28684	.29586	.30712	.31810	.33044	.34258	.35542	.36934	.38262	.39606	.41086	.42472	.43696	.45200	.46504	.47946
0.04	.33968	.34490	.35060	.35696	.36404	.37152	.38138	.39076	.40122	.41174	.42260	.43460	.44596	.45762	.47030	.48220	.49272	.50544	.51650	.52886
0.05	.40168	.40632	.41152	.41734	.42354	.43014	.43870	.44694	.45598	.46528	.47490	.48518	.49518	.50558	.51674	.52716	.53614	.54744	.55688	.56730
0.06	.44960	.45382	.45850	.46374	.46960	.47548	.48348	.49080	.49882	.50714	.51576	.52490	.53394	.54320	.55310	.56248	.57056	.58072	.58906	.59834
0.07	.49440	.49820	.50258	.50744	.51254	.51782	.52510	.53164	.53878	.54640	.55406	.56218	.57024	.57866	.58742	.59588	.60314	.61242	.62000	.62838
0.08	.53072	.53422	.53842	.54300	.54770	.55264	.55930	.56514	.57164	.57862	.58552	.59294	.60020	.60776	.61562	.62344	.62992	.63830	.64524	.65286
0.09	.56220	.56538	.56934	.57386	.57788	.58244	.58858	.59404	.60004	.60656	.61278	.61956	.62612	.63302	.64032	.64780	.65352	.66114	.66736	.67434
0.10	.59386	.59674	.60052	.60458	.60844	.61256	.61794	.62306	.62860	.63470	.64050	.64658	.65248	.65880	.66564	.67198	.67746	.68448	.69006	.69646
0.11	.61850	.62108	.62468	.62860	.63220	.63606	.64108	.64588	.65110	.65672	.66210	.66784	.67334	.67932	.68570	.69156	.69662	.70306	.70816	.71416
0.12	.64208	.64464	.64800	.65170	.65512	.65876	.66356	.66812	.67296	.67810	.68320	.68858	.69362	.69922	.70518	.71040	.71496	.72094	.72564	.73116
0.13	.66312	.66556	.66874	.67224	.67536	.67864	.68318	.68734	.69192	.69652	.70132	.70642	.71116	.71638	.72204	.72694	.73112	.73686	.74128	.74642
0.14	.68366	.68602	.68902	.69242	.69528	.69828	.70256	.70660	.71086	.71514	.71950	.72440	.72882	.73374	.73914	.74348	.74724	.75250	.75644	.76130
0.15	.70220	.70442	.70728	.71036	.71302	.71588	.71994	.72364	.72784	.73156	.73568	.74018	.74436	.74896	.75398	.75818	.76160	.76656	.77012	.77466
0.16	.72116	.72324	.72578	.72872	.73124	.73390	.73774	.74106	.74496	.74876	.75278	.75704	.76090	.76528	.77000	.77392	.77700	.78154	.78484	.78912
0.17	.73762	.73956	.74204	.74478	.74716	.74966	.75328	.75632	.76004	.76356	.76732	.77126	.77478	.77892	.78320	.78700	.78992	.79402	.79714	.80112
0.18	.75368	.75550	.75776	.76032	.76260	.76500	.76848	.77140	.77482	.77808	.78162	.78530	.78854	.79234	.79614	.79966	.80240	.80618	.80904	.81266
0.19	.76920	.77088	.77294	.77530	.77730	.77946	.78262	.78534	.78856	.79164	.79490	.79852	.80130	.80480	.80834	.81162	.81418	.81764	.82024	.82362
0.20	.78268	.78420	.78618	.78842	.79028	.79236	.79536	.79794	.80096	.80386	.80700	.81016	.81296	.81616	.81940	.82246	.82480	.82802	.83042	.83362

Table D.6 (Continued)

Powers of $CM - V$ Sequential test against Weibull for n = 35

$CM\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01026	.02300	.03712	.05226	.07142	.09234	.11234	.13326	.15666	.18158	.20486	.22836	.25420	.28122	.30626	.33266	.35874	.38482	.41286
0.02	.19042	.19840	.20852	.21930	.23122	.24558	.26184	.27672	.29300	.31056	.32980	.34752	.36472	.38408	.40432	.42260	.44136	.46058	.47930	.49916
0.03	.31516	.32196	.33046	.33952	.34952	.36158	.37518	.38722	.40026	.41460	.43024	.44454	.45862	.47416	.49080	.50568	.52056	.53546	.55060	.56600
0.04	.40774	.41356	.42080	.42872	.43742	.44780	.45910	.46926	.48044	.49244	.50544	.51768	.52946	.54230	.55576	.56818	.58018	.59234	.60464	.61702
0.05	.47870	.48390	.49032	.49706	.50448	.51330	.52322	.53196	.54170	.55184	.56306	.57356	.58350	.59456	.60618	.61694	.62720	.63762	.64808	.65872
0.06	.53420	.53874	.54452	.55058	.55710	.56488	.57370	.58162	.59014	.59884	.60874	.61780	.62616	.63616	.64642	.65604	.66492	.67414	.68298	.69246
0.07	.57718	.58128	.58664	.59196	.59792	.60486	.61264	.61966	.62708	.63486	.64378	.65200	.65946	.66840	.67778	.68608	.69406	.70232	.71016	.71862
0.08	.61618	.61978	.62436	.62930	.63472	.64106	.64818	.65458	.66116	.66816	.67632	.68364	.69038	.69826	.70676	.71374	.72076	.72802	.73528	.74276
0.09	.64710	.65028	.65444	.65904	.66406	.67000	.67652	.68228	.68830	.69490	.70220	.70902	.71504	.72216	.72966	.73608	.74240	.74888	.75550	.76238
0.10	.67384	.67674	.68064	.68482	.68938	.69486	.70094	.70640	.71200	.71818	.72494	.73120	.73670	.74340	.75030	.75632	.76196	.76774	.77372	.77996
0.11	.69812	.70074	.70438	.70828	.71242	.71740	.72304	.72806	.73308	.73874	.74488	.75072	.75590	.76200	.76810	.77378	.77890	.78418	.78974	.79552
0.12	.72324	.72564	.72892	.73262	.73640	.74088	.74608	.75056	.75504	.76008	.76562	.77102	.77572	.78124	.78692	.79212	.79670	.80146	.80656	.81176
0.13	.74520	.74746	.75042	.75378	.75718	.76132	.76594	.77004	.77410	.77880	.78394	.78878	.79302	.79814	.80340	.80824	.81250	.81680	.82148	.82622
0.14	.76432	.76646	.76924	.77234	.77540	.77912	.78340	.78728	.79096	.79526	.79998	.80446	.80832	.81310	.81788	.82240	.82640	.83020	.83448	.83880
0.15	.78012	.78208	.78472	.78762	.79050	.79398	.79798	.80150	.80498	.80900	.81346	.81766	.82134	.82582	.83022	.83438	.83804	.84158	.84550	.84946
0.16	.79426	.79604	.79850	.80118	.80388	.80720	.81090	.81426	.81742	.82114	.82522	.82916	.83260	.83676	.84098	.84480	.84822	.85144	.85520	.85886
0.17	.80900	.81074	.81296	.81540	.81792	.82100	.82450	.82756	.83046	.83386	.83766	.84132	.84442	.84830	.85224	.85562	.85874	.86164	.86508	.86834
0.18	.82204	.82370	.82582	.82812	.83054	.83332	.83668	.83948	.84222	.84530	.84888	.85228	.85508	.85874	.86232	.86538	.86836	.87100	.87418	.87712
0.19	.83534	.83686	.83876	.84092	.84316	.84574	.84876	.85146	.85400	.85688	.86018	.86330	.86594	.86924	.87252	.87538	.87810	.88056	.88346	.88620
0.20	.84776	.84916	.85096	.85290	.85500	.85736	.86016	.86260	.86478	.86746	.87054	.87352	.87590	.87900	.88198	.88460	.88706	.88940	.89220	.89476

Powers of $CM - V$ Sequential test against Weibull for n = 40

$CM\ a\ V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01110	.02524	.04448	.06854	.08444	.10820	.13550	.16098	.19124	.22034	.25490	.28350	.31242	.34122	.36912	.39800	.42602	.45402	.47824
0.02	.23386	.24210	.25268	.26704	.28502	.29686	.31434	.33462	.35336	.37510	.39646	.42188	.44186	.46258	.48292	.50254	.52262	.54178	.56104	.57778
0.03	.37040	.37722	.38580	.39716	.41144	.42094	.43508	.45150	.46636	.48570	.50108	.52128	.53484	.55360	.56896	.58432	.59948	.61404	.62878	.64136
0.04	.47062	.47654	.48382	.49364	.50560	.51312	.52472	.53840	.55076	.56500	.57944	.59594	.60862	.62210	.63454	.64716	.65908	.67102	.68304	.69296
0.05	.54020	.54518	.55168	.56008	.57056	.57700	.58704	.59924	.61006	.62202	.63430	.64846	.65918	.67060	.68112	.69162	.70158	.71194	.72224	.73082
0.06	.59150	.59586	.60154	.60912	.61834	.62404	.63284	.64346	.65306	.66344	.67412	.68670	.69634	.70614	.71534	.72484	.73332	.74260	.75162	.75882
0.07	.64322	.64712	.65196	.65852	.66648	.67116	.67876	.68796	.69650	.70562	.71480	.72578	.73582	.74236	.75036	.75800	.76576	.77372	.78186	.78772
0.08	.68560	.68900	.69314	.69882	.70598	.71004	.71664	.72478	.73230	.74030	.74846	.75810	.76510	.77236	.77918	.78586	.79234	.79918	.80610	.81128
0.09	.71724	.72042	.72424	.72924	.73554	.73918	.74504	.75242	.75920	.76620	.77344	.78220	.78834	.79488	.80074	.80682	.81248	.81870	.82480	.82952
0.10	.74852	.75138	.75470	.75916	.76480	.76790	.77318	.77956	.78550	.79158	.79804	.80546	.81088	.81640	.82170	.82694	.83200	.83752	.84284	.84708
0.11	.77480	.77726	.78022	.78436	.78936	.79226	.79678	.80256	.80784	.81338	.81916	.82596	.83078	.83584	.84028	.84484	.84934	.85410	.85878	.86252
0.12	.79412	.79638	.79918	.80292	.80752	.81010	.81432	.81956	.82446	.82946	.83466	.84096	.84534	.84968	.85398	.85808	.86234	.86656	.87070	.87412
0.13	.81088	.81290	.81550	.81884	.82314	.82554	.82936	.83428	.83886	.84344	.84830	.85396	.85800	.86198	.86590	.86962	.87354	.87746	.88112	.88430
0.14	.82736	.82924	.83166	.83470	.83844	.84060	.84404	.84854	.85274	.85694	.86130	.86634	.87008	.87358	.87722	.88050	.88404	.88760	.89098	.89384
0.15	.84014	.84198	.84418	.84696	.85030	.85226	.85552	.85964	.86356	.86746	.87148	.87624	.87958	.88288	.88622	.88914	.89234	.89580	.89872	.90140
0.16	.85368	.85534	.85750	.86008	.86316	.86492	.86802	.87164	.87514	.87864	.88234	.88684	.88988	.89292	.89598	.89868	.90168	.90454	.90744	.90984
0.17	.86480	.86630	.86828	.87060	.87340	.87510	.87806	.88132	.88448	.88780	.89130	.89546	.89818	.90098	.90384	.90634	.90904	.91166	.91422	.91640
0.18	.87510	.87644	.87834	.88050	.88308	.88448	.88720	.89022	.89314	.89616	.89934	.90322	.90564	.90824	.91096	.91322	.91580	.91816	.92050	.92252
0.19	.88408	.88526	.88704	.88902	.89148	.89278	.89536	.89812	.90080	.90358	.90684	.91028	.91254	.91498	.91746	.91960	.92198	.92420	.92644	.92842
0.20	.89314	.89424	.89584	.89768	.89998	.90114	.90350	.90604	.90858	.91116	.91382	.91736	.91956	.92186	.92404	.92604	.92832	.93018	.93238	.93416

Table D.6 (Continued)

Powers of $CM - V$ Sequential test against Weibull for n = 45

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01204	.02986	.05304	.07822	.10460	.13312	.16398	.19356	.22930	.26296	.29758	.33070	.35968	.39378	.42388	.45298	.48214	.51116	.53992
0.02	.28662	.29524	.30746	.32356	.34104	.35980	.37952	.40088	.42142	.44632	.46898	.49200	.51468	.53418	.55672	.57656	.59576	.61510	.63350	.65012
0.03	.43678	.44352	.45306	.46610	.47958	.49430	.51004	.52674	.54270	.56198	.57944	.59708	.61436	.62946	.64644	.66186	.67632	.69106	.79472	.71738
0.04	.53888	.54452	.55216	.56284	.57412	.58604	.59900	.61272	.62566	.64142	.65564	.66956	.68376	.69588	.70950	.72172	.73304	.74458	.76502	.76466
0.05	.61276	.61736	.62378	.63240	.64186	.65190	.66282	.67430	.68510	.69854	.71076	.72262	.73444	.74428	.75500	.76478	.77426	.78344	.79196	.79990
0.06	.66868	.67270	.67832	.68578	.69368	.70192	.71076	.72048	.72958	.74080	.75124	.76132	.77140	.77996	.78898	.79680	.80498	.81288	.81976	.82650
0.07	.71428	.71778	.72252	.72906	.73582	.74290	.75036	.75860	.76650	.77628	.78528	.79408	.80276	.80992	.81780	.82466	.83176	.83866	.84470	.85028
0.08	.74748	.75064	.75484	.76096	.76696	.77332	.77982	.78704	.79398	.80246	.81036	.81818	.82554	.83172	.83870	.84500	.85130	.85750	.86272	.86762
0.09	.77798	.78072	.78424	.78972	.79492	.80052	.80602	.81226	.81834	.82570	.83256	.83938	.84576	.85118	.85738	.86282	.86838	.87386	.87852	.88256
0.10	.80556	.80796	.81106	.81586	.82044	.82552	.83054	.83594	.84134	.84788	.85364	.85958	.86514	.86978	.87520	.88000	.88440	.88952	.89332	.89708
0.11	.82546	.82760	.83034	.83462	.83866	.84312	.84764	.85232	.85724	.86302	.86830	.87366	.87876	.88300	.88766	.89186	.89614	.90042	.90366	.90702
0.12	.84196	.84388	.84626	.85030	.85392	.85814	.86230	.86652	.87088	.87616	.88086	.88560	.89022	.89398	.89828	.90202	.90588	.90972	.91262	.91556
0.13	.85886	.86052	.86260	.86604	.86934	.87318	.87686	.88072	.88460	.88942	.89344	.89768	.90178	.90506	.90882	.91224	.91560	.91900	.92164	.92426
0.14	.87392	.87538	.87722	.88006	.88304	.88650	.88988	.89332	.89692	.90128	.90488	.90864	.91220	.91516	.91858	.92162	.92464	.92778	.93008	.93222
0.15	.88494	.88636	.88806	.89058	.89322	.89636	.89938	.90250	.90598	.90986	.91316	.91658	.91986	.92250	.92566	.92842	.93110	.93394	.93608	.93804
0.16	.89442	.89576	.89734	.89958	.90208	.90496	.90776	.91070	.91376	.91732	.92036	.92344	.92646	.92892	.93184	.93430	.93676	.93934	.94130	.94316
0.17	.90450	.90574	.90716	.90922	.91148	.91406	.91656	.91936	.92218	.92522	.92786	.93068	.93338	.93556	.93834	.94038	.94260	.94482	.94654	.94836
0.18	.91254	.91374	.91508	.91700	.91902	.92138	.92370	.92618	.92862	.93142	.93378	.93630	.93866	.94062	.94318	.94498	.94698	.94906	.95056	.95226
0.19	.91900	.92008	.92132	.92322	.92514	.92732	.92950	.93180	.93412	.93662	.93882	.94106	.94328	.94504	.94748	.94918	.95098	.95290	.95426	.95586
0.20	.92642	.92740	.92856	.93018	.93202	.93396	.93600	.93808	.94016	.94248	.94450	.94652	.94852	.95016	.95246	.95400	.95558	.95736	.95850	.95986

Powers of $CM - V$ Sequential test against Weibull for n = 50

$CM\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01570	.03662	.06270	.09344	.12722	.16292	.19836	.23838	.27278	.31298	.34848	.38606	.42158	.45556	.48834	.51812	.54822	.58068	.60788
0.02	.32892	.33930	.35284	.37086	.39116	.41340	.43684	.46028	.48640	.50860	.53548	.55928	.58300	.60538	.62736	.64834	.66736	.68636	.70658	.72330
0.03	.49052	.49816	.50846	.52210	.53734	.55448	.57222	.58950	.60928	.62562	.64558	.66286	.68008	.69706	.71352	.72884	.74290	.75728	.77228	.78432
0.04	.58936	.59550	.60368	.61478	.62760	.64172	.65606	.66970	.68562	.69896	.71466	.72816	.74214	.75596	.76888	.78112	.79234	.80328	.81492	.82436
0.05	.65960	.66472	.67138	.68066	.69120	.70316	.71552	.72674	.74016	.75130	.76368	.77482	.78668	.79828	.80902	.81860	.82804	.83670	.84630	.85364
0.06	.71384	.71798	.72374	.73128	.74014	.75018	.76064	.77016	.78152	.79084	.80146	.81076	.82048	.82992	.83886	.84688	.85460	.86178	.86982	.87610
0.07	.75688	.76046	.76514	.77176	.77946	.78800	.79706	.80488	.81450	.82242	.83102	.83892	.84696	.85498	.86242	.86938	.87612	.88216	.88894	.89400
0.08	.79168	.79470	.79868	.80428	.81086	.81816	.82576	.83260	.84070	.84758	.85486	.86146	.86838	.87524	.88156	.88746	.89304	.89828	.90414	.90844
0.09	.81904	.82174	.82526	.82986	.83578	.84222	.84884	.85480	.86182	.86764	.87398	.87958	.88566	.89142	.89686	.90186	.90664	.91116	.91638	.92008
0.10	.84054	.84274	.84580	.84990	.85516	.86078	.86672	.87200	.87816	.88328	.88896	.89404	.89930	.90436	.90902	.91352	.91764	.92154	.92600	.92918
0.11	.86000	.86188	.86452	.86824	.87294	.87782	.88302	.88760	.89306	.89742	.90240	.90702	.91160	.91594	.92002	.92398	.92774	.93120	.93520	.93804
0.12	.87544	.87716	.87958	.88284	.88718	.89150	.89600	.89998	.90494	.90888	.91332	.91736	.92142	.92530	.92902	.93258	.93594	.93916	.94282	.94578
0.13	.88862	.89020	.89232	.89516	.89906	.90302	.90698	.91060	.91510	.91856	.92260	.92618	.92978	.93334	.93640	.93968	.94268	.94554	.94870	.95088
0.14	.89952	.90082	.90274	.90526	.90882	.91242	.91604	.91940	.92338	.92650	.93006	.93322	.93660	.93974	.94258	.94558	.94830	.95102	.95346	.95580
0.15	.91056	.91176	.91338	.91560	.91860	.92202	.92510	.92804	.93160	.93448	.93778	.94054	.94356	.94630	.94900	.95160	.95410	.95648	.95908	.96080
0.16	.92018	.92116	.92256	.92440	.92702	.93020	.93294	.93554	.93866	.94118	.94412	.94674	.94950	.95186	.95430	.95664	.95900	.96108	.96334	.96490
0.17	.92820	.92904	.93030	.93194	.93438	.93720	.93972	.94210	.94496	.94712	.94984	.95218	.95468	.95680	.95898	.96104	.96312	.96500	.96710	.96846
0.18	.93614	.93694	.93802	.93948	.94178	.94422	.94650	.94860	.95116	.95300	.95542	.95752	.95982	.96170	.96370	.96560	.96754	.96918	.97096	.97212
0.19	.94146	.94218	.94314	.94450	.94652	.94880	.95096	.95282	.95526	.95688	.95908	.96104	.96310	.96484	.96672	.96836	.97022	.97168	.97332	.97430
0.20	.94816	.94884	.94968	.95090	.95272	.95474	.95662	.95824	.96038	.96186	.96374	.96550	.96726	.96878	.97050	.97192	.97362	.97482	.97626	.97710

Table D.6 (Continued)

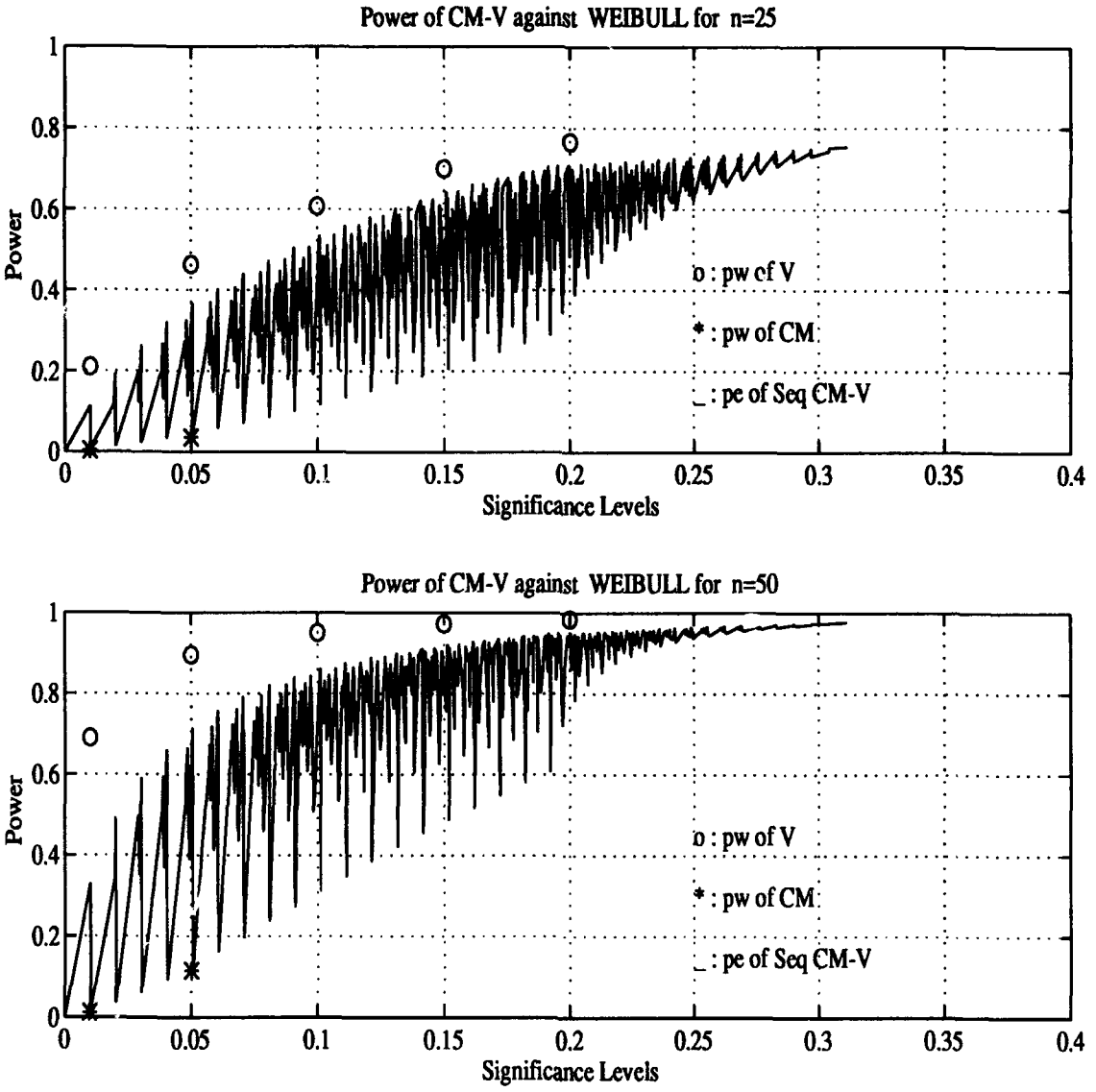

Figure D.5 Power comparisons of $CM - V$ against Weibull

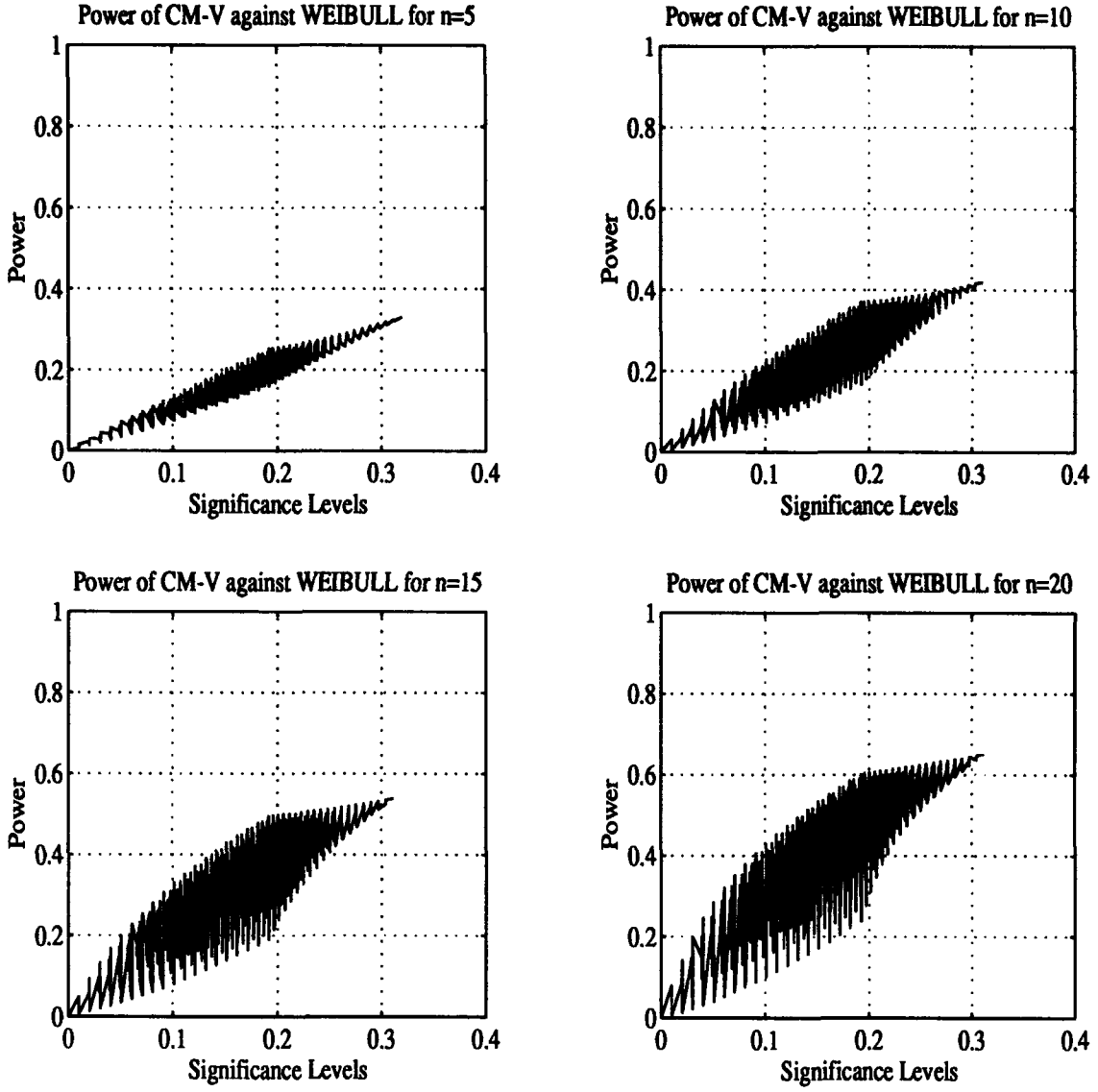

Figure D.5 (Continued)

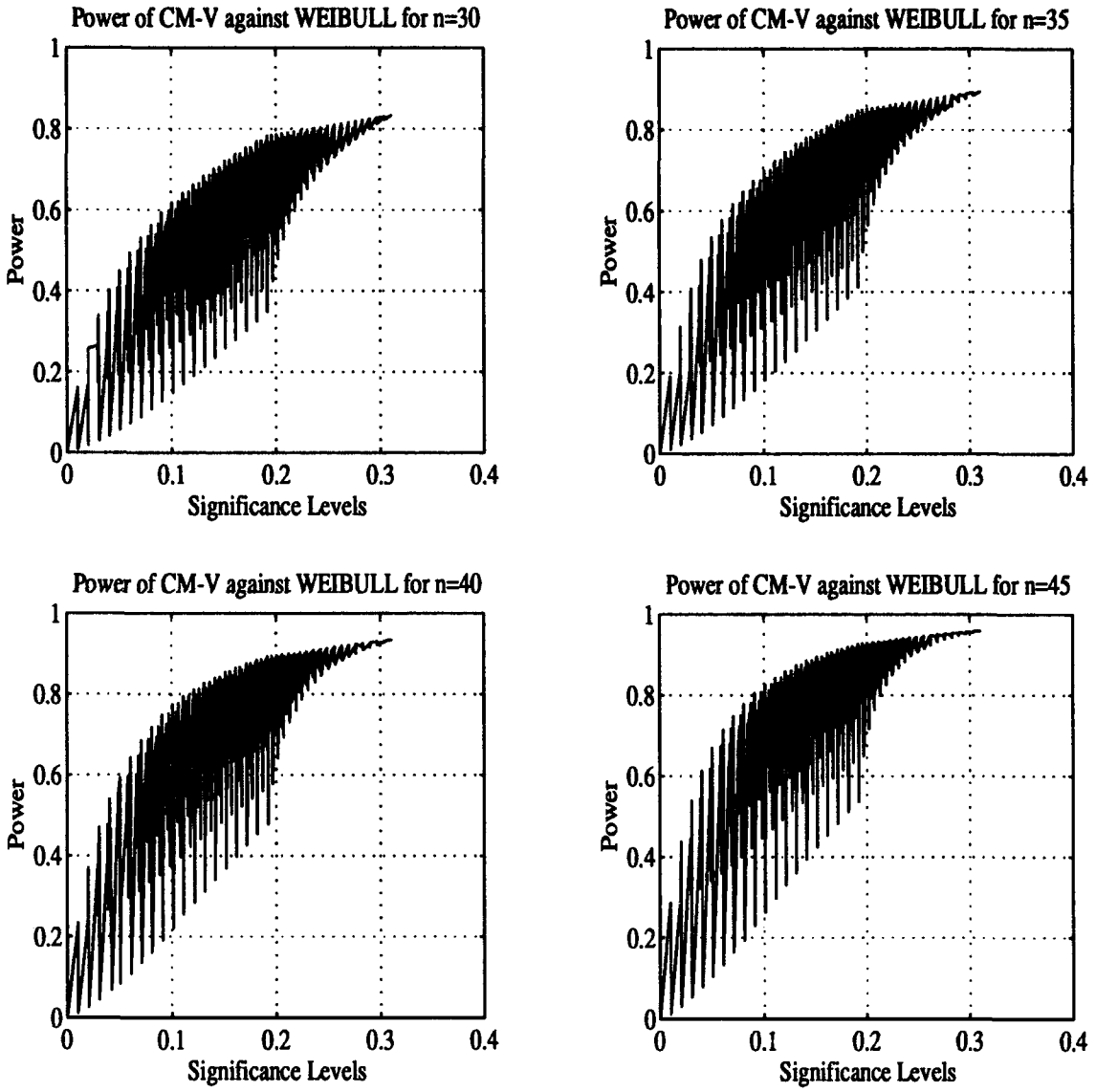

Figure D.5 (Continued)

Appendix E. Power tables of $CM(Ref) - V$

This appendix include the complete power results of the $CM(Ref) - V$ Sequential Test. The results are presented as tables and garphs for each alternative distribution. On the graphs "$*$" represents the power level of the $CM(Ref)$ test and straight line "_" represents the power of $CM(Ref) - V$ sequential test. "o" again represents the power of the V test.

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 5$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01014	.01914	.02816	.03784	.04816	.05704	.06700	.07800	.08830	.09810	.10908	.11802	.12676	.13564	.14472	.15396	.16332	.17238	.18152
0.02	.01524	.02492	.03320	.04162	.05060	.05992	.06806	.07680	.08592	.09536	.10496	.11572	.12458	.13328	.14206	.15096	.16012	.16942	.17832	.18730
0.03	.02916	.03838	.04612	.05398	.06250	.07140	.07922	.08728	.09586	.10460	.11372	.12414	.13276	.14140	.15002	.15876	.16780	.17698	.18584	.19484
0.04	.04280	.05168	.05906	.06650	.07474	.08318	.09068	.09826	.10632	.11446	.12316	.13332	.14168	.15008	.15858	.16704	.17598	.18492	.19330	.20200
0.05	.05562	.06420	.07126	.07838	.08636	.09438	.10154	.10870	.11626	.12394	.13222	.14188	.15000	.15828	.16658	.17490	.18370	.19252	.20082	.20930
0.06	.06950	.07762	.08430	.09110	.09864	.10628	.11316	.12002	.12704	.13430	.14208	.15118	.15904	.16708	.17520	.18326	.19200	.20076	.20890	.21720
0.07	.08218	.09008	.09652	.10298	.11012	.11752	.12410	.13062	.13712	.14392	.15122	.15982	.16750	.17540	.18332	.19116	.19982	.20812	.21620	.22442
0.08	.09408	.10186	.10804	.11422	.12102	.12824	.13450	.14070	.14676	.15320	.16002	.16820	.17564	.18332	.19102	.19866	.20698	.21530	.22336	.23130
0.09	.10708	.11462	.12072	.12660	.13320	.14004	.14606	.15178	.15748	.16356	.16998	.17770	.18482	.19228	.19972	.20722	.21546	.22366	.23156	.23934
0.10	.12006	.12732	.13318	.13878	.14508	.15162	.15730	.16272	.16804	.17386	.17976	.18712	.19382	.20096	.20818	.21544	.22336	.23142	.23916	.24672
0.11	.13414	.14118	.14656	.15186	.15788	.16418	.16958	.17474	.17978	.18518	.19062	.19750	.20382	.21062	.21772	.22480	.23248	.24042	.24808	.25544
0.12	.14766	.15448	.15972	.16484	.17054	.17662	.18178	.18672	.19142	.19656	.20170	.20798	.21398	.22038	.22706	.23400	.24152	.24930	.25682	.26396
0.13	.15918	.16576	.17088	.17578	.18124	.18718	.19222	.19694	.20130	.20622	.21126	.21700	.22260	.22864	.23506	.24186	.24918	.25670	.26410	.27102
0.14	.17182	.17806	.18306	.18778	.19308	.19876	.20358	.20784	.21196	.21660	.22138	.22668	.23202	.23780	.24382	.25050	.25760	.26500	.27228	.27906
0.15	.18484	.19078	.19552	.20006	.20524	.21062	.21520	.21934	.22330	.22774	.23218	.23706	.24220	.24762	.25318	.25952	.26628	.27340	.28058	.28716
0.16	.19812	.20380	.20824	.21258	.21748	.22264	.22696	.23102	.23474	.23890	.24314	.24768	.25248	.25760	.26290	.26898	.27552	.28244	.28952	.29596
0.17	.20978	.21524	.21952	.22366	.22842	.23336	.23764	.24158	.24520	.24922	.25326	.25764	.26218	.26694	.27196	.27770	.28404	.29072	.29782	.30392
0.18	.22180	.22710	.23128	.23518	.23958	.24458	.24874	.25250	.25592	.25986	.26356	.26776	.27190	.27630	.28088	.28634	.29226	.29870	.30544	.31162
0.19	.23462	.23968	.24382	.24764	.25196	.25656	.26062	.26426	.26752	.27122	.27474	.27878	.28260	.28658	.29082	.29584	.30142	.30752	.31402	.31992
0.20	.24690	.25172	.25572	.25946	.26336	.26794	.27176	.27528	.27830	.28184	.28514	.28888	.29244	.29604	.30002	.30476	.31006	.31588	.32232	.32804

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 10$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02502	.05032	.07206	.09326	.11438	.13206	.15140	.17002	.18948	.20908	.22656	.24484	.26186	.27926	.29480	.31116	.32634	.33898	.35360
0.02	.02742	.05042	.07418	.09474	.11482	.13508	.15204	.17040	.18824	.20696	.22588	.24276	.26032	.27686	.29358	.30884	.32466	.33950	.35168	.36596
0.03	.05210	.07326	.09538	.11464	.13356	.15306	.16932	.18686	.20416	.22218	.24046	.25658	.27338	.28960	.30586	.32074	.33622	.35052	.36236	.37624
0.04	.07434	.09318	.11356	.13184	.15004	.16862	.18424	.20116	.21786	.23522	.25294	.26866	.28514	.30084	.31662	.33116	.34616	.36002	.37186	.38522
0.05	.09804	.11466	.13352	.15074	.16802	.18558	.20054	.21684	.23292	.24968	.26684	.28186	.29786	.31298	.32824	.34214	.35678	.37028	.38164	.39486
0.06	.12022	.13488	.15200	.16832	.18468	.20128	.21542	.23096	.24652	.26278	.27918	.29366	.30926	.32384	.33866	.35220	.36658	.37978	.39078	.40378
0.07	.14208	.15506	.17058	.18560	.20084	.21646	.22988	.24478	.25964	.27526	.29106	.30498	.32006	.33430	.34878	.36188	.37590	.38884	.39964	.41240
0.08	.16060	.17172	.18602	.20014	.21468	.22952	.24230	.25664	.27094	.28614	.30164	.31510	.32974	.34378	.35792	.37072	.38448	.39712	.40772	.42024
0.09	.18040	.18996	.20262	.21550	.22890	.24274	.25498	.26882	.28256	.29738	.31226	.32532	.33958	.35322	.36698	.37946	.39290	.40532	.41568	.42796
0.10	.19738	.20558	.21732	.22936	.24188	.25484	.26638	.27968	.29304	.30738	.32164	.33446	.34840	.36186	.37532	.38758	.40080	.41296	.42296	.43500
0.11	.21440	.22144	.23190	.24300	.25486	.26694	.27790	.29072	.30358	.31738	.33120	.34570	.35732	.37044	.38350	.39536	.40830	.42024	.43006	.44178
0.12	.23226	.23838	.24746	.25746	.26870	.27996	.29040	.30268	.31502	.32824	.34156	.35360	.36688	.37972	.39220	.40368	.41610	.42776	.43734	.44882
0.13	.24932	.25448	.26254	.27174	.28204	.29240	.30224	.31398	.32570	.33848	.35128	.36288	.37562	.38826	.40050	.41168	.42388	.43516	.44444	.45548
0.14	.26464	.26900	.27608	.28450	.29406	.30384	.31316	.32432	.33552	.34784	.36030	.37162	.38402	.39598	.40798	.41888	.43080	.44178	.45092	.46102
0.15	.27904	.28292	.28968	.29736	.30622	.31538	.32432	.33502	.34580	.35756	.36952	.38056	.39246	.40404	.41580	.42646	.43814	.44866	.45756	.46832
0.16	.29294	.29646	.30252	.30944	.31760	.32618	.33456	.34480	.35528	.36662	.37808	.38878	.40050	.41176	.42322	.43388	.44502	.45524	.46404	.47462
0.17	.30886	.31202	.31736	.32360	.33076	.33860	.34636	.35594	.36602	.37712	.38818	.39848	.40964	.42046	.43164	.44168	.45280	.46286	.47142	.48172
0.18	.32478	.32758	.33240	.33806	.34456	.35174	.35894	.36788	.37750	.38792	.39848	.40842	.41916	.42948	.44040	.45018	.46098	.47090	.47920	.48928
0.19	.33888	.34146	.34586	.35082	.35684	.36356	.37038	.37868	.38780	.39784	.40802	.41748	.42796	.43794	.44864	.45810	.46854	.47832	.48648	.49628
0.20	.35364	.35598	.35986	.36414	.36982	.37594	.38220	.39004	.39862	.40834	.41782	.42690	.43706	.44666	.45716	.46622	.47644	.48590	.49392	.50360

Table E.1 Power tables of $CM(Ref) - V$ against Normal ditribution

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 15$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04864	.09090	.12852	.15900	.19120	.22028	.24744	.27256	.29798	.32292	.34488	.36712	.38764	.40696	.42350	.44396	.46056	.47764	.49364
0.02	.04448	.08690	.12550	.16028	.18860	.21902	.24656	.27208	.29618	.32060	.34452	.36558	.38692	.40646	.42512	.44116	.46072	.47668	.49332	.50848
0.03	.08408	.12036	.15512	.18730	.21406	.24278	.26884	.29310	.31638	.33978	.36284	.38312	.40372	.42248	.44040	.45576	.47456	.49016	.50612	.52096
0.04	.12030	.15154	.18288	.21238	.23722	.26412	.28904	.31200	.33448	.35686	.37898	.39850	.41830	.43636	.45376	.46880	.48682	.50198	.51756	.53202
0.05	.15212	.17916	.20756	.23416	.25734	.28286	.30638	.32814	.34960	.37126	.39254	.41148	.43058	.44808	.46488	.47966	.49710	.51188	.52690	.54106
0.06	.18106	.20510	.23042	.25482	.27668	.30046	.32282	.34358	.36416	.38494	.40544	.42352	.44210	.45904	.47526	.48962	.50670	.52110	.53582	.54968
0.07	.20946	.23036	.25268	.27520	.29544	.31746	.33870	.35844	.37820	.39796	.41772	.43514	.45318	.46956	.48534	.49930	.51588	.53000	.54434	.55790
0.08	.23226	.25112	.27122	.29196	.31074	.33158	.35180	.37048	.38946	.40850	.42748	.44442	.46200	.47782	.49326	.50674	.52302	.53694	.55080	.56408
0.09	.25644	.27304	.29150	.31018	.32740	.34668	.36554	.38346	.40178	.42000	.43840	.45476	.47174	.48714	.50206	.51506	.53098	.54446	.55792	.57072
0.10	.28252	.29702	.31344	.32968	.34538	.36316	.38070	.39778	.41514	.43266	.45022	.46598	.48220	.49704	.51154	.52412	.53968	.55284	.56608	.57852
0.11	.30540	.31800	.33228	.34704	.36128	.37812	.39454	.41076	.42708	.44396	.46072	.47610	.49162	.50588	.52000	.53224	.54740	.56020	.57318	.58524
0.12	.32592	.33682	.34944	.36282	.37614	.39162	.40700	.42264	.43836	.45452	.47066	.48540	.50044	.51430	.52796	.53970	.55436	.56692	.57980	.59134
0.13	.34410	.35384	.36532	.37768	.38982	.40414	.41860	.43358	.44872	.46400	.47950	.49370	.50816	.52168	.53502	.54650	.56070	.57302	.58540	.59684
0.14	.36200	.37064	.38088	.39222	.40338	.41658	.43034	.44454	.45906	.47358	.48844	.50214	.51614	.52902	.54194	.55312	.56700	.57898	.59104	.60222
0.15	.38010	.38772	.39694	.40714	.41718	.42926	.44210	.45560	.46940	.48326	.49752	.51064	.52426	.53690	.54950	.56036	.57382	.58560	.59744	.60824
0.16	.39986	.40656	.41480	.42396	.43330	.44444	.45600	.46852	.48144	.49452	.50810	.52066	.53368	.54584	.55788	.56842	.58142	.59284	.60436	.61484
0.17	.41778	.42378	.43130	.43962	.44802	.45798	.46870	.48042	.49274	.50524	.51814	.53016	.54270	.55450	.56620	.57640	.58888	.59994	.61122	.62158
0.18	.43380	.43916	.44596	.45360	.46138	.47062	.48058	.49156	.50340	.51528	.52752	.53894	.55092	.56232	.57374	.58374	.59578	.60642	.61744	.62746
0.19	.44884	.45378	.45970	.46666	.47394	.48238	.49158	.50192	.51308	.52436	.53604	.54700	.55850	.56962	.58070	.59046	.60234	.61262	.62340	.63314
0.20	.46510	.46964	.47488	.48114	.48760	.49524	.50376	.51340	.52394	.53458	.54562	.55612	.56702	.57736	.58848	.59790	.60950	.61948	.62978	.63912

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 20$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.07788	.13934	.19440	.23756	.27656	.31088	.34534	.37532	.40800	.43320	.46230	.48564	.50664	.52810	.54802	.56742	.58402	.59924	.61534
0.02	.06922	.13386	.18788	.23804	.27756	.31318	.34508	.37726	.40526	.43588	.45946	.48652	.50854	.52836	.54852	.56726	.58586	.60146	.61586	.63132
0.03	.12410	.17870	.22682	.27182	.30796	.34090	.37104	.40152	.42806	.45680	.47922	.50506	.52614	.54502	.56424	.58224	.59990	.61516	.62904	.64382
0.04	.17382	.21984	.26250	.30284	.33602	.36626	.39482	.42356	.44868	.47582	.49708	.52150	.54150	.55952	.57818	.59542	.61242	.62712	.64056	.65496
0.05	.21884	.25764	.29502	.33108	.36130	.38922	.41580	.44300	.46686	.49270	.51304	.53638	.55548	.57256	.59056	.60700	.62340	.63780	.65056	.66436
0.06	.25592	.28902	.32150	.35390	.38182	.40776	.43284	.45864	.48124	.50592	.52546	.54788	.56646	.58302	.60038	.61614	.63214	.64574	.65826	.67176
0.07	.29018	.31860	.34784	.37732	.40276	.42648	.45020	.47452	.49570	.51904	.53772	.55912	.57696	.59[illegible]36	.60946	.62468	.64006	.65316	.66552	.67846
0.08	.32014	.34454	.37048	.39716	.42056	.44254	.46502	.48786	.50818	.53052	.54854	.56926	.58624	.60144	.61750	.63224	.64724	.66000	.67164	.68424
0.09	.34564	.36768	.39072	.41484	.43638	.45680	.47812	.49948	.51888	.54044	.55780	.57770	.59428	.60904	.62466	.63898	.65352	.66600	.67728	.68982
0.10	.37042	.38974	.41048	.43212	.45196	.47096	.49108	.51148	.53008	.55054	.56728	.58630	.60232	.61664	.63190	.64572	.65994	.67198	.68294	.69490
0.11	.39430	.41122	.42956	.44932	.46764	.48508	.50406	.52334	.54104	.56030	.57622	.59452	.60996	.62372	.63854	.65216	.66596	.67760	.68822	.69990
0.12	.41732	.43246	.44852	.46654	.48336	.49958	.51728	.53522	.55200	.57032	.58558	.60306	.61800	.63124	.64530	.65846	.67198	.68332	.69386	.70524
0.13	.43848	.45194	.46644	.48270	.49812	.51314	.52932	.54598	.56194	.57948	.59418	.61104	.62534	.63814	.65180	.66446	.67748	.68852	.69884	.70990
0.14	.45786	.47016	.48336	.49802	.51236	.52610	.54124	.55698	.57220	.58902	.60314	.61924	.63302	.64538	.65850	.67078	.68338	.69416	.70422	.71484
0.15	.47724	.48820	.50002	.51340	.52692	.53956	.55350	.56840	.58264	.59870	.61206	.62772	.64082	.65282	.66538	.67724	.68946	.70002	.70978	.72026
0.16	.49544	.50528	.51604	.52824	.54058	.55218	.56504	.57894	.59248	.60772	.62046	.63548	.64802	.65966	.67190	.68340	.69520	.70548	.71492	.72512
0.17	.51296	.52200	.53180	.54278	.55438	.56514	.57692	.59002	.60284	.61728	.62930	.64374	.65568	.66684	.67860	.68978	.70112	.71106	.72012	.72984
0.18	.52758	.53604	.54480	.55484	.56558	.57564	.58666	.59902	.61116	.62468	.63620	.65012	.66170	.67244	.68388	.69466	.70570	.71540	.72432	.73380
0.19	.54584	.55362	.56130	.57036	.58014	.58934	.59950	.61080	.62200	.63470	.64562	.65870	.66972	.67996	.69104	.70140	.71204	.72138	.72998	.73904
0.20	.56314	.57040	.57738	.58540	.59418	.60266	.61208	.62262	.63306	.64450	.65478	.66720	.67754	.68712	.69774	.70778	.71792	.72682	.73518	.74398

Table B.2 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 25$

$CM(R)\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10544	.18490	.25730	.31716	.36786	.41076	.44586	.48236	.51346	.54328	.56816	.59110	.61228	.63150	.65082	.66740	.68696	.70284	.71712
0.02	.09558	.18208	.25010	.31280	.36662	.41244	.45214	.48422	.51740	.54594	.57338	.59650	.61780	.63726	.65500	.67298	.68828	.70632	.72084	.73426
0.03	.16662	.23792	.29690	.35238	.40094	.44324	.47996	.50986	.54106	.56778	.59318	.61492	.63492	.65318	.66992	.68706	.70146	.71632	.73234	.74500
0.04	.23158	.29040	.34072	.38920	.43278	.47140	.50506	.53302	.56216	.58720	.61108	.63156	.65030	.66772	.68338	.69958	.71332	.72966	.74296	.75492
0.05	.28282	.33280	.37624	.41956	.45910	.49452	.52552	.55154	.57892	.60246	.62506	.64440	.66252	.67908	.69400	.70950	.72256	.73814	.75094	.76258
0.06	.32818	.37088	.40840	.44712	.48278	.51556	.54450	.56858	.59414	.61626	.63762	.65606	.67334	.68920	.70332	.71816	.73078	.74588	.75826	.76926
0.07	.36298	.40024	.43366	.46836	.50142	.53156	.55866	.58132	.60546	.62668	.64718	.66488	.68166	.69682	.71054	.72496	.73704	.75170	.76354	.77436
0.08	.39808	.42902	.45766	.48856	.51932	.54760	.57312	.59458	.61748	.63776	.65736	.67424	.69024	.70466	.71786	.73162	.74338	.75752	.76902	.77962
0.09	.42866	.45628	.48178	.50932	.53778	.56356	.58724	.60740	.62914	.64860	.66724	.68338	.69884	.71282	.72552	.73884	.75016	.76384	.77492	.78512
0.10	.45918	.48308	.50494	.52920	.55536	.57896	.60116	.61990	.64038	.65894	.67676	.69196	.70676	.71974	.73188	.74466	.75560	.76870	.77946	.78942
0.11	.48730	.50876	.52824	.54998	.57374	.59524	.61570	.63298	.65182	.66914	.68572	.70040	.71452	.72694	.73874	.75100	.76142	.77358	.78440	.79400
0.12	.51104	.53014	.54710	.56680	.58866	.60830	.62722	.64336	.66110	.67756	.69342	.70742	.72088	.73288	.74442	.75638	.76646	.77864	.78876	.79820
0.13	.53554	.55224	.56732	.58468	.60422	.62230	.63986	.65498	.67154	.68704	.70188	.71516	.72776	.73932	.75028	.76182	.77160	.78342	.79328	.80240
0.14	.55734	.57234	.58548	.60104	.61888	.63532	.65146	.66556	.68106	.69574	.70978	.72276	.73484	.74600	.75632	.76742	.77682	.78834	.79784	.80666
0.15	.57716	.59090	.60264	.61662	.63262	.64782	.66276	.67572	.69004	.70370	.71716	.72960	.74112	.75196	.76184	.77250	.78154	.79280	.80184	.81034
0.16	.59742	.60998	.62054	.63286	.64728	.66100	.67458	.68646	.69996	.71292	.72550	.73712	.74798	.75846	.76790	.77798	.78658	.79744	.80622	.81436
0.17	.61534	.62676	.63632	.64732	.66028	.67272	.68522	.69624	.70908	.72112	.73302	.74396	.75424	.76428	.77332	.78304	.79132	.80178	.81030	.81806
0.18	.63098	.64128	.64994	.65998	.67170	.68314	.69476	.70510	.71722	.72872	.73988	.75044	.76036	.77002	.77862	.78796	.79600	.80594	.81420	.82164
0.19	.64658	.65590	.66380	.67300	.68380	.69416	.70506	.71458	.72580	.73648	.74708	.75686	.76634	.77546	.78360	.79262	.80040	.81002	.81804	.82524
0.20	.66114	.66978	.67696	.68524	.69508	.70444	.71466	.72342	.73400	.74402	.75396	.76326	.77228	.78092	.78866	.79726	.80478	.81414	.82174	.82876

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 30$

$CM(R)\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.15400	.25138	.32444	.38856	.43852	.48284	.52682	.56498	.59918	.62398	.64814	.67468	.69768	.71834	.73638	.75364	.76846	.78184	.79634
0.02	.13530	.25282	.33362	.39536	.44980	.49354	.53230	.57138	.60562	.63592	.65798	.67970	.70338	.72404	.74284	.75900	.77478	.78850	.80062	.81346
0.03	.22118	.31676	.38568	.43912	.48712	.52728	.56200	.59778	.62928	.65684	.67742	.69768	.71952	.73884	.75644	.77168	.78656	.79928	.81058	.82328
0.04	.29530	.37184	.43014	.47640	.51910	.55496	.58650	.61968	.64860	.67412	.69368	.71240	.73308	.75120	.76776	.78224	.79630	.80842	.81904	.83086
0.05	.35530	.41816	.46808	.50892	.54726	.57996	.60868	.63914	.66606	.68994	.70830	.72552	.74482	.76172	.77740	.79096	.80456	.81592	.82594	.83716
0.06	.40398	.45702	.50024	.53604	.57030	.60006	.62610	.65430	.67980	.70186	.71946	.73574	.75414	.77018	.78518	.79800	.81094	.82198	.83166	.84234
0.07	.44698	.49204	.52938	.56076	.59106	.61804	.64222	.66850	.69224	.71322	.72988	.74526	.76288	.77820	.79260	.80490	.81724	.82788	.83726	.84750
0.08	.48258	.52142	.55486	.58234	.60932	.63394	.65628	.68096	.70330	.72264	.73828	.75290	.76964	.78452	.79864	.81040	.82232	.83254	.84146	.85130
0.09	.51222	.54638	.57598	.60106	.62546	.64834	.66918	.69228	.71302	.73136	.74610	.76008	.77604	.79022	.80392	.81528	.82682	.83664	.84518	.85466
0.10	.54312	.57264	.59816	.62058	.64270	.66360	.68300	.70412	.72312	.74036	.75432	.76754	.78248	.79582	.80892	.82002	.83110	.84070	.84890	.85806
0.11	.56906	.59514	.61752	.63760	.65758	.67680	.69498	.71470	.73246	.74860	.76184	.77430	.78892	.80164	.81396	.82468	.83532	.84464	.85268	.86150
0.12	.59342	.61642	.63606	.65406	.67192	.68950	.70622	.72452	.74108	.75636	.76882	.78080	.79434	.80666	.81844	.82882	.83916	.84818	.85584	.86442
0.13	.61560	.63632	.65400	.67028	.68652	.70216	.71782	.73424	.74960	.76382	.77564	.78710	.79998	.81174	.82294	.83296	.84294	.85168	.85912	.86758
0.14	.63592	.65460	.67018	.68482	.69978	.71416	.72852	.74386	.75794	.77138	.78250	.79340	.80532	.81654	.82694	.83676	.84634	.85486	.86196	.86960
0.15	.65546	.67208	.68590	.69880	.71250	.72574	.73890	.75290	.76598	.77840	.78898	.79928	.81062	.82144	.83124	.84088	.85008	.85808	.86496	.87276
0.16	.67514	.69016	.70208	.71362	.72578	.73744	.74944	.76242	.77442	.78620	.79602	.80564	.81650	.82674	.83608	.84516	.85406	.86156	.86830	.87590
0.17	.69240	.70582	.71638	.72668	.73786	.74786	.75876	.77092	.78208	.79304	.80224	.81098	.82120	.83098	.83992	.84860	.85724	.86442	.87094	.87816
0.18	.70826	.72064	.73020	.73968	.74956	.75872	.76868	.77918	.78950	.79972	.80850	.81672	.82638	.83556	.84424	.85246	.86080	.86770	.87400	.88098
0.19	.72350	.73504	.74342	.75160	.76016	.76818	.77724	.78718	.79682	.80628	.81456	.82226	.83122	.83970	.84800	.85556	.86336	.87052	.87680	.88328
0.20	.73804	.74838	.75592	.76326	.77092	.77806	.78636	.79564	.80444	.81332	.82114	.82840	.83690	.84484	.85272	.86012	.86778	.87410	.87990	.88626

Table B.2 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 35$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.19022	.30988	.38856	.45388	.50802	.55718	.59668	.63560	.66880	.69904	.72224	.74500	.76516	.78412	.79996	.81422	.82746	.83968	.85056
0.02	.16536	.30630	.39990	.46568	.52028	.56558	.60722	.64212	.67680	.70574	.73218	.75272	.77292	.79034	.80730	.82102	.83366	.84542	.85622	.86612
0.03	.27686	.38544	.46134	.51610	.56320	.60310	.63974	.67090	.70182	.72700	.75074	.76956	.78820	.80428	.82006	.83290	.84470	.85554	.86548	.87492
0.04	.36104	.44752	.50984	.55648	.59712	.63286	.66550	.69348	.72126	.74406	.76608	.78362	.80080	.81584	.83040	.84234	.85358	.86384	.87308	.88214
0.05	.42500	.49512	.54728	.58736	.62342	.65514	.68450	.71024	.73602	.75718	.77778	.79426	.81034	.82452	.83850	.84954	.85996	.86956	.87822	.88686
0.06	.47962	.53760	.58084	.61506	.64660	.67464	.70146	.72530	.74936	.76872	.78796	.80348	.81864	.83212	.84526	.85572	.86564	.87460	.88300	.89104
0.07	.52216	.57056	.60754	.63830	.66588	.69124	.71526	.73716	.75982	.77774	.79592	.81058	.82490	.83788	.85046	.86054	.87016	.87870	.88672	.89458
0.08	.56234	.60178	.63310	.66022	.68442	.70758	.72958	.74980	.77084	.78768	.80456	.81820	.83178	.84380	.85566	.86552	.87464	.88274	.89048	.89812
0.09	.59356	.62760	.65490	.67882	.70054	.72170	.74154	.76002	.77930	.79496	.81086	.82406	.83690	.84840	.85968	.86914	.87782	.88574	.89324	.90056
0.10	.62220	.65172	.67532	.69652	.71602	.73516	.75332	.77040	.78818	.80290	.81774	.83012	.84228	.85320	.86390	.87302	.88144	.88890	.89618	.90332
0.11	.64608	.67248	.69336	.71224	.72968	.74692	.76348	.77936	.79596	.80952	.82370	.83554	.84704	.85738	.86742	.87610	.88420	.89150	.89858	.90550
0.12	.67178	.69478	.71306	.72980	.74518	.76030	.77550	.78948	.80478	.81706	.83038	.84166	.85240	.86192	.87152	.87996	.88778	.89488	.90164	.90812
0.13	.69400	.71414	.73016	.74504	.75852	.77176	.78550	.79848	.81286	.82424	.83664	.84686	.85704	.86604	.87528	.88320	.89068	.89754	.90408	.91046
0.14	.71654	.73438	.74812	.76046	.77266	.78464	.79706	.80854	.82152	.83198	.84356	.85302	.86242	.87098	.87970	.88734	.89450	.90104	.90726	.91334
0.15	.73426	.75054	.76272	.77372	.78450	.79536	.80640	.81686	.82884	.83848	.84906	.85778	.86666	.87472	.88302	.89038	.89718	.90342	.90936	.91520
0.16	.75098	.76530	.77610	.78618	.79604	.80606	.81620	.82542	.83614	.84522	.85500	.86314	.87158	.87914	.88702	.89388	.90020	.90618	.91200	.91758
0.17	.76674	.77972	.78926	.79858	.80746	.81636	.82490	.83332	.84308	.85146	.86056	.86804	.87590	.88290	.89034	.89702	.90290	.90862	.91426	.91964
0.18	.78008	.79192	.80068	.80888	.81654	.82438	.83222	.84006	.84894	.85686	.86540	.87224	.87972	.88632	.89328	.89960	.90512	.91040	.91600	.92120
0.19	.79268	.80376	.81152	.81890	.82586	.83294	.84014	.84722	.85524	.86262	.87054	.87702	.88400	.89030	.89660	.90294	.90798	.91322	.91840	.92348
0.20	.80520	.81514	.82190	.82870	.83524	.84142	.84780	.85436	.86178	.86866	.87612	.88212	.88828	.89408	.90000	.90586	.91066	.91560	.92062	.92544

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 40$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.23134	.37484	.47324	.54242	.60234	.64896	.68816	.71946	.75200	.77540	.79580	.81530	.83248	.84706	.85944	.87204	.88330	.89348	.90270
0.02	.19970	.36430	.47246	.55060	.60724	.65698	.69534	.72898	.75606	.78408	.80438	.82198	.83866	.85352	.86630	.87696	.88766	.89758	.90652	.91438
0.03	.32532	.44974	.53500	.59870	.64710	.69046	.72334	.75276	.77722	.80286	.82090	.83662	.85148	.86502	.87668	.88630	.89580	.90408	.91344	.92056
0.04	.41730	.51278	.58214	.63436	.67852	.71366	.74316	.76964	.79166	.81526	.83170	.84632	.86022	.87298	.88384	.89284	.90160	.91046	.91832	.92516
0.05	.48414	.56106	.61892	.66310	.69948	.73350	.75992	.78408	.80388	.82562	.84068	.85422	.86744	.87922	.88940	.89784	.90598	.91428	.92164	.92822
0.06	.53704	.60116	.64954	.68726	.71944	.74990	.77412	.79602	.81390	.83388	.84794	.86068	.87294	.88402	.89354	.90150	.90946	.91744	.92456	.93078
0.07	.58730	.64018	.68022	.71214	.73920	.76598	.78756	.80784	.82418	.84206	.85514	.86692	.87876	.88922	.89826	.90566	.91310	.92050	.92740	.93340
0.08	.62746	.67286	.70590	.73282	.75626	.77974	.79902	.81782	.83320	.84978	.86190	.87272	.88352	.89342	.90196	.90898	.91610	.92322	.92982	.93558
0.09	.66208	.70032	.72748	.75106	.77166	.79268	.81000	.82708	.84140	.85676	.86806	.87842	.88824	.89760	.90580	.91260	.91918	.92602	.93216	.93768
0.10	.69082	.72336	.74650	.76736	.78576	.80414	.81998	.83550	.84868	.86276	.87310	.88288	.89214	.90114	.90880	.91536	.92172	.92810	.93382	.93902
0.11	.72048	.74802	.76742	.78500	.80076	.81706	.83066	.84464	.85646	.86888	.87846	.88786	.89620	.90458	.91180	.91806	.92416	.93030	.93590	.94098
0.12	.74196	.76654	.78312	.79792	.81186	.82666	.83868	.85188	.86276	.87306	.88326	.89164	.89994	.90802	.91488	.92058	.92650	.93234	.93772	.94256
0.13	.76278	.78444	.79838	.81158	.82352	.83676	.84754	.85946	.86928	.87990	.88850	.89648	.90424	.91160	.91816	.92350	.92884	.93450	.93968	.94428
0.14	.78150	.80042	.81268	.82450	.83486	.84676	.85642	.86710	.87592	.88566	.89366	.90066	.90788	.91468	.92080	.92582	.93090	.93638	.94122	.94568
0.15	.79644	.81316	.82392	.83434	.84344	.85408	.86284	.87272	.88098	.89024	.89776	.90418	.91116	.91746	.92316	.92788	.93274	.93802	.94272	.94698
0.16	.81126	.82630	.83578	.84480	.85284	.86224	.87014	.87900	.88656	.89486	.90176	.90772	.91416	.92000	.92540	.92990	.93462	.93984	.94420	.94824
0.17	.82448	.83776	.84630	.85402	.86114	.86960	.87656	.88454	.89152	.89904	.90552	.91110	.91706	.92256	.92762	.93190	.93650	.94158	.94576	.94964
0.18	.83588	.84762	.85520	.86180	.86812	.87590	.88242	.88956	.89608	.90324	.90906	.91442	.92010	.92526	.93018	.93426	.93868	.94352	.94758	.95130
0.19	.84608	.85710	.86368	.86938	.87508	.88202	.88806	.89458	.90068	.90724	.91260	.91748	.92290	.92786	.93262	.93648	.94072	.94512	.94904	.95256
0.20	.85646	.86638	.87184	.87700	.88224	.88838	.89402	.89984	.90530	.91118	.91606	.92064	.92572	.93034	.93490	.93862	.94254	.94678	.95058	.95374

Table B.2 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 45$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.25870	.40636	.50976	.58708	.64618	.69734	.73816	.77012	.79802	.81828	.83586	.85318	.86872	.88176	.89300	.90290	.91196	.92156	.92872
0.02	.24194	.41740	.52336	.59980	.66030	.70678	.72906	.78152	.80794	.83064	.84736	.86136	.87592	.88920	.89974	.90954	.91750	.92512	.93334	.93958
0.03	.36224	.51038	.59224	.65310	.70224	.74050	.77650	.80500	.82722	.84706	.86188	.87438	.88760	.89908	.90868	.91740	.92470	.93186	.93902	.94470
0.04	.47376	.57354	.63902	.68906	.73084	.76410	.79566	.82080	.84098	.85844	.87180	.88334	.89544	.90602	.91508	.92286	.92980	.93618	.94332	.94844
0.05	.54706	.62544	.67860	.71956	.75476	.78336	.81144	.83398	.85258	.86826	.88070	.89088	.90210	.91202	.92058	.92758	.93404	.94020	.94660	.95134
0.06	.60580	.66892	.71262	.74648	.77602	.80082	.82548	.84598	.86274	.87672	.88778	.89722	.90772	.91692	.92492	.93126	.93734	.94314	.94924	.95370
0.07	.65194	.70338	.73900	.76776	.79236	.81426	.83614	.85442	.86984	.88240	.89236	.90132	.91132	.91992	.92742	.93346	.93932	.94448	.95070	.95490
0.08	.68836	.73058	.76090	.78538	.80700	.82614	.84502	.86160	.87600	.88778	.89706	.90542	.91494	.92284	.93008	.93592	.94146	.94676	.95252	.95650
0.09	.72154	.75780	.78278	.80328	.82146	.83848	.85508	.86950	.88246	.89358	.90214	.91000	.91898	.92658	.93334	.93894	.94408	.94906	.95440	.95812
0.10	.75218	.78200	.80268	.81978	.83526	.85014	.86500	.87766	.88912	.89946	.90728	.91448	.92300	.93000	.93628	.94148	.94642	.95122	.95630	.95990
0.11	.77408	.80020	.81828	.83280	.84614	.85928	.87254	.88426	.89452	.90420	.91120	.91776	.92590	.93264	.93844	.94336	.94798	.95260	.95748	.96088
0.12	.79584	.81828	.83370	.84552	.85694	.86824	.88002	.89012	.89924	.90804	.91464	.92072	.92838	.93478	.94040	.94502	.94948	.95402	.95880	.96214
0.13	.81228	.83200	.84542	.85598	.86622	.87588	.88660	.89546	.90380	.91188	.91820	.92392	.93118	.93724	.94232	.94684	.95112	.95542	.96008	.96318
0.14	.82884	.84624	.85800	.86724	.87570	.88394	.89344	.90124	.90890	.91632	.92234	.92778	.93452	.94034	.94508	.94916	.95316	.95720	.96166	.96474
0.15	.84114	.85660	.86718	.87534	.88300	.89044	.89940	.90628	.91316	.91994	.92556	.93054	.93700	.94252	.94702	.95082	.95456	.95834	.96268	.96566
0.16	.85300	.86696	.87676	.88396	.89060	.89714	.90532	.91164	.91770	.92384	.92902	.93356	.93950	.94466	.94910	.95268	.95636	.95984	.96378	.96644
0.17	.86514	.87774	.88656	.89288	.89850	.90432	.91120	.91656	.92220	.92770	.93240	.93688	.94234	.94706	.95128	.95432	.95790	.96110	.96482	.96736
0.18	.87482	.88644	.89458	.90000	.90504	.91018	.91630	.92100	.92624	.93110	.93542	.93958	.94462	.94892	.95294	.95586	.95918	.96224	.96586	.96832
0.19	.88398	.89446	.90146	.90598	.91034	.91478	.92042	.92478	.92964	.93426	.93830	.94228	.94696	.95090	.95454	.95750	.96042	.96342	.96692	.96924
0.20	.89364	.90286	.90908	.91276	.91658	.92028	.92530	.92904	.93360	.93782	.94158	.94518	.94954	.95322	.95664	.95914	.96204	.96486	.96814	.97022

Powers of $CM(Ref) - V$ Sequential test against Normal for $n = 50$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.29024	.45460	.56538	.65008	.70988	.75988	.79320	.82714	.84758	.86908	.88358	.89674	.91108	.92108	.92954	.93760	.94332	.94776	.95222
0.02	.28278	.46816	.57986	.65868	.72044	.76496	.80364	.82942	.85604	.87350	.89118	.90224	.91484	.92464	.93296	.93964	.94664	.95142	.95540	.95920
0.03	.42718	.56032	.64560	.70822	.75840	.79492	.82698	.84904	.87240	.88796	.90364	.91338	.92450	.93332	.94084	.94668	.95278	.95698	.96056	.96426
0.04	.52372	.62346	.68988	.74082	.78252	.81444	.84214	.86166	.88304	.89640	.91070	.91984	.93008	.93804	.94468	.95000	.95554	.95954	.96282	.96622
0.05	.60180	.67870	.73032	.77074	.80514	.83184	.85536	.87236	.89138	.90412	.91730	.92566	.93498	.94226	.94792	.95280	.95792	.96156	.96476	.96790
0.06	.65756	.72006	.76192	.79482	.82438	.84750	.86772	.88266	.89946	.91142	.92328	.93106	.93896	.94582	.95110	.95548	.96020	.96346	.96644	.96924
0.07	.70048	.75112	.78602	.81366	.83818	.85836	.87648	.89004	.90526	.91646	.92724	.93450	.94196	.94828	.95318	.95734	.96190	.96514	.96786	.97052
0.08	.73478	.77674	.80660	.82998	.85080	.86836	.88418	.89610	.91002	.92030	.93056	.93736	.94438	.95056	.95496	.95884	.96324	.96648	.96902	.97152
0.09	.76280	.79848	.82410	.84418	.86252	.87798	.89210	.90304	.91550	.92498	.93424	.94044	.94710	.95270	.95708	.96070	.96496	.96802	.97044	.97296
0.10	.78682	.81752	.83870	.85604	.87228	.88580	.89862	.90884	.92048	.92930	.93756	.94326	.94948	.95460	.95878	.96226	.96628	.96918	.97184	.97404
0.11	.81296	.83866	.85600	.87078	.88432	.89586	.90714	.91634	.92598	.93406	.94120	.94654	.95202	.95670	.96054	.96360	.96732	.96992	.97230	.97456
0.12	.83198	.85412	.86890	.88218	.89316	.90334	.91334	.92154	.93040	.93760	.94418	.94928	.95460	.95906	.96266	.96536	.96870	.97128	.97354	.97560
0.13	.84644	.86572	.87886	.89038	.90014	.90940	.91808	.92552	.93348	.94012	.94644	.95126	.95638	.96056	.96388	.96624	.96932	.97186	.97408	.97604
0.14	.86128	.87870	.88998	.89954	.90776	.91588	.92366	.93018	.93756	.94328	.94828	.95386	.95840	.96224	.96530	.96752	.97056	.97284	.97500	.97692
0.15	.87328	.88844	.89878	.90730	.91450	.92174	.92860	.93442	.94088	.94614	.95160	.95586	.96018	.96382	.96674	.96890	.97172	.97388	.97588	.97756
0.16	.88488	.89824	.90688	.91432	.92060	.92726	.93344	.93848	.94438	.94942	.95404	.95800	.96184	.96544	.96828	.97022	.97298	.97492	.97672	.97848
0.17	.89598	.90806	.91558	.92178	.92698	.93278	.93800	.94238	.94786	.95248	.95648	.96018	.96386	.96712	.96978	.97158	.97422	.97596	.97760	.97928
0.18	.90372	.91450	.92120	.92670	.93148	.93650	.94088	.94484	.95004	.95430	.95796	.96136	.96494	.96802	.97060	.97230	.97466	.97636	.97802	.97966
0.19	.91382	.92360	.92938	.93402	.93782	.94208	.94578	.94884	.95332	.95710	.96050	.96346	.96666	.96944	.97186	.97322	.97554	.97726	.97876	.98028
0.20	.92172	.93016	.93544	.93946	.94292	.94668	.95006	.95286	.95674	.96014	.96276	.96552	.96856	.97124	.97324	.97460	.97672	.97822	.97960	.98110

Table B.2 (Continued)

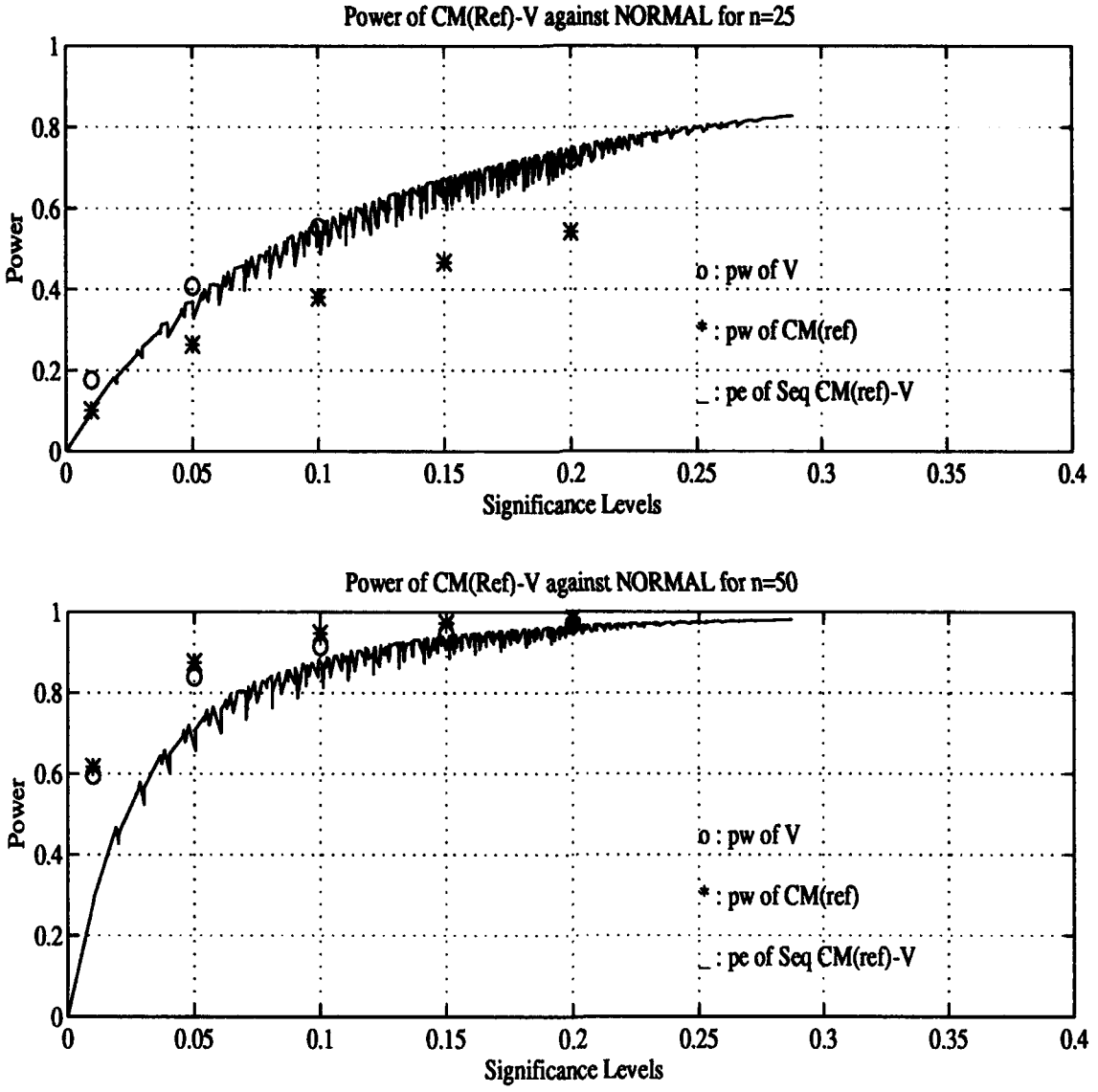

Figure E.1 Power comparisons of $CM(Ref) - V$ against Normal

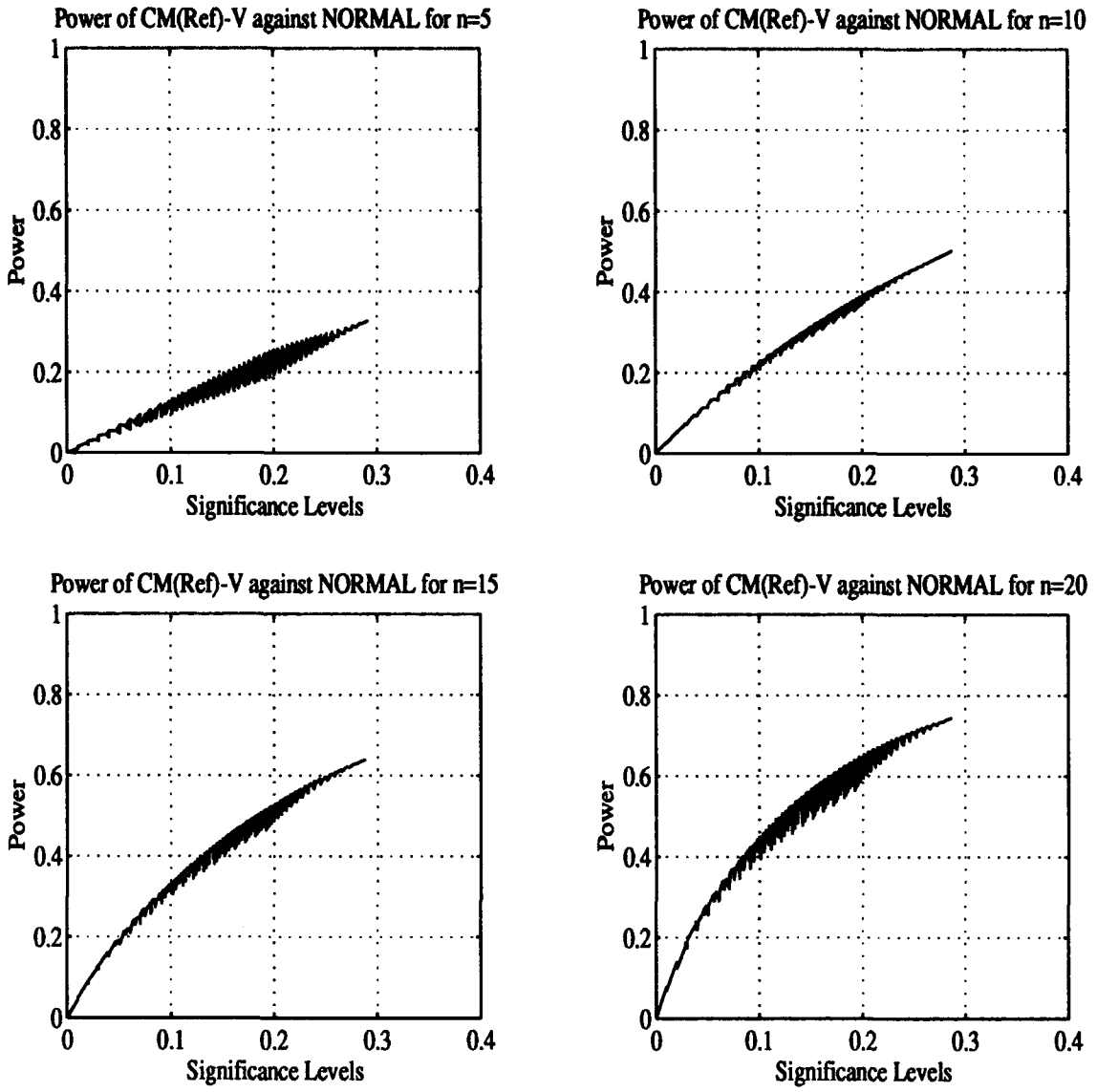

Figure E.1 (Continued)

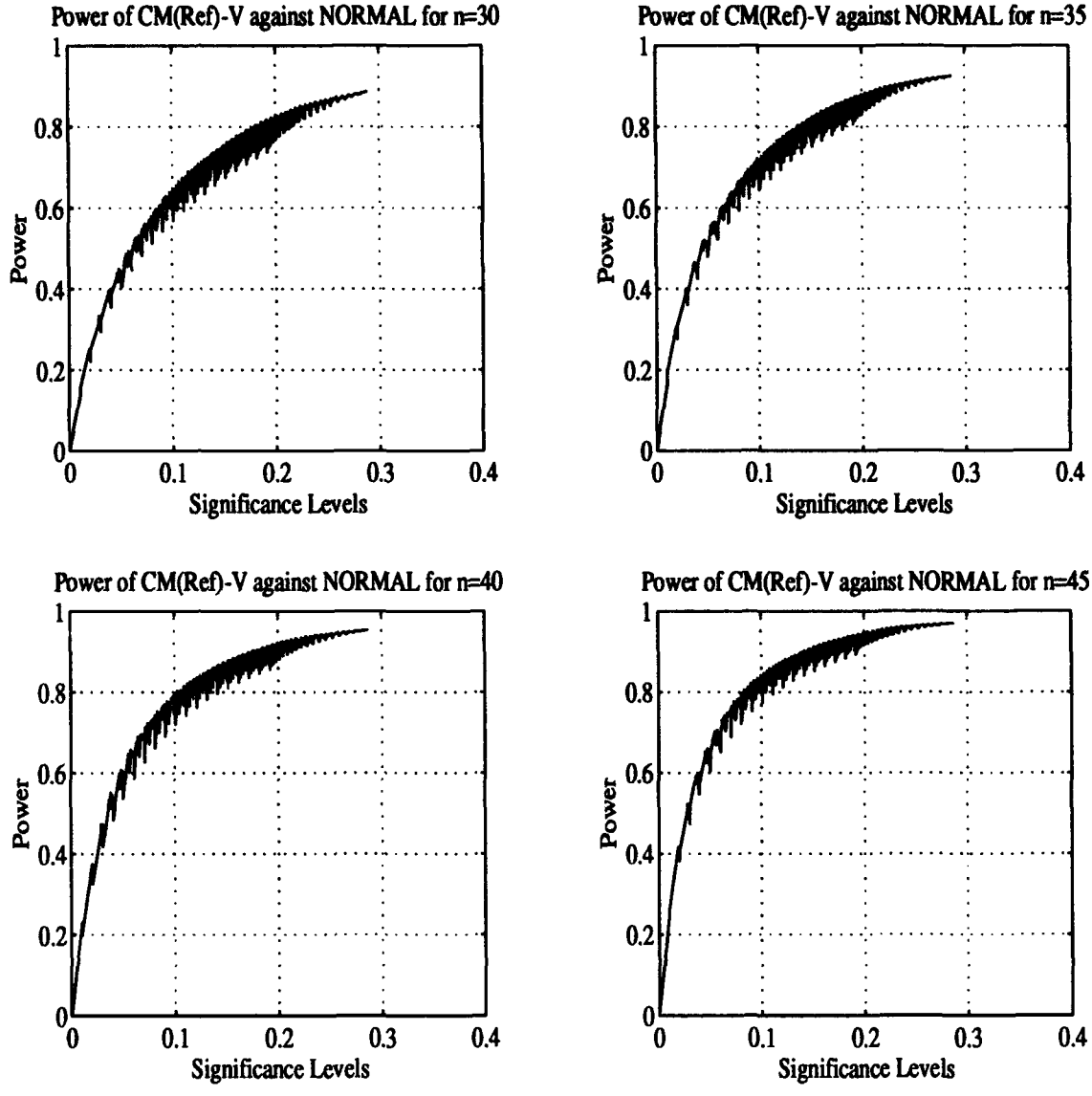

Figure E.1 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Exponential for n = 5

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01250	.02386	.03490	.04570	.05852	.07052	.08370	.09626	.10888	.12098	.13410	.14646	.15822	.17034	.18110	.19236	.20344	.21440	.22440
0.02	.02020	.03196	.04238	.05258	.06256	.07396	.08428	.09556	.10592	.11768	.12956	.14256	.15478	.16644	.17836	.18898	.20022	.21116	.22206	.23192
0.03	.03830	.04936	.05906	.06878	.07820	.08900	.09856	.10902	.11836	.12926	.14032	.15296	.16490	.17640	.18814	.19856	.20956	.22040	.23110	.24084
0.04	.05564	.06602	.07496	.08426	.09328	.10346	.11246	.12246	.13118	.14144	.15188	.16416	.17574	.18700	.19828	.20844	.21912	.22970	.24012	.24966
0.05	.07184	.08164	.09010	.09894	.10744	.11696	.12536	.13460	.14296	.15248	.16232	.17400	.18524	.19638	.20742	.21742	.22780	.23816	.24822	.25764
0.06	.08992	.09914	.10702	.11528	.12330	.13222	.14032	.14904	.15652	.16540	.17452	.18550	.19652	.20724	.21782	.22744	.23762	.24780	.25752	.26676
0.07	.10518	.11396	.12136	.12922	.13666	.14612	.15276	.16096	.16804	.17630	.18504	.19544	.20606	.21642	.22672	.23614	.24606	.25600	.26560	.27472
0.08	.11970	.12820	.13550	.14282	.14990	.15800	.16526	.17314	.17972	.18740	.19562	.20540	.21558	.22556	.23564	.24478	.25454	.26418	.27364	.28256
0.09	.13592	.14408	.15092	.15796	.16466	.17238	.17918	.18652	.19266	.19960	.20720	.21630	.22588	.23550	.24534	.25426	.26378	.27308	.28240	.29132
0.10	.15096	.15862	.16520	.17192	.17824	.18570	.19218	.19908	.20466	.21118	.21816	.22678	.23580	.24490	.25438	.26316	.27240	.28144	.29050	.29912
0.11	.16790	.17512	.18128	.18752	.19336	.20042	.20664	.21314	.21842	.22430	.23076	.23856	.24686	.25542	.26462	.27310	.28206	.29094	.29978	.30822
0.12	.18492	.19178	.19760	.20350	.20902	.21580	.22154	.22768	.23244	.23798	.24392	.25092	.25864	.26666	.27548	.28358	.29228	.30078	.30928	.31740
0.13	.19990	.20646	.21202	.21754	.22286	.22930	.23470	.24054	.24508	.25020	.25586	.26246	.26968	.27714	.28548	.29334	.30180	.30994	.31828	.32620
0.14	.21460	.22082	.22610	.23146	.23654	.24266	.24772	.25322	.25748	.26230	.26760	.27364	.28048	.28750	.29528	.30286	.31112	.31908	.32734	.33510
0.15	.22806	.23414	.23920	.24420	.24902	.25484	.25966	.26494	.26900	.27334	.27830	.28400	.29040	.29686	.30410	.31138	.31924	.32702	.33516	.34286
0.16	.24246	.24828	.25314	.25782	.26252	.26806	.27266	.27758	.28134	.28544	.28996	.29522	.30124	.30728	.31400	.32090	.32836	.33586	.34376	.35132
0.17	.25742	.26296	.26760	.27196	.27650	.28186	.28610	.29066	.29422	.29812	.30234	.30714	.31258	.31834	.32462	.33104	.33800	.34530	.35288	.36022
0.18	.27212	.27748	.28196	.28616	.29050	.29556	.29948	.30376	.30706	.31060	.31456	.31900	.32396	.32940	.33514	.34114	.34762	.35466	.36194	.36912
0.19	.28598	.29104	.29528	.29932	.30348	.30828	.31190	.31600	.31912	.32242	.32610	.33028	.33500	.33986	.34534	.35096	.35710	.36386	.37084	.37774
0.20	.29974	.30466	.30882	.31268	.31658	.32124	.32472	.32876	.33160	.33466	.33806	.34206	.34658	.35104	.35604	.36120	.36696	.37330	.38008	.38670

Powers of $CM(Ref) - V$ Sequential test against Exponential for n = 10

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02054	.04036	.05878	.07604	.09296	.10826	.12418	.13912	.15410	.17060	.18444	.19892	.21218	.22508	.23686	.24930	.26166	.27278	.28524
0.02	.05408	.07148	.08892	.10546	.12096	.13600	.14940	.16400	.17744	.19098	.20612	.21890	.23244	.24450	.25632	.26748	.27896	.29062	.30082	.31240
0.03	.09672	.11142	.12698	.14186	.15604	.16960	.18190	.19522	.20764	.22016	.23426	.24608	.25900	.27030	.28146	.29200	.30300	.31408	.32366	.33480
0.04	.13408	.14688	.16090	.17450	.18762	.20024	.21164	.22404	.23552	.24748	.26056	.27188	.28408	.29486	.30534	.31530	.32564	.33624	.34536	.35602
0.05	.17106	.18230	.19478	.20694	.21910	.23068	.24120	.25270	.26342	.27456	.28668	.29742	.30876	.31906	.32896	.33834	.34812	.35816	.36684	.37696
0.06	.20310	.21262	.22366	.23478	.24598	.25670	.26648	.27730	.28732	.29798	.30938	.31954	.33036	.34030	.34976	.35866	.36812	.37764	.38598	.39580
0.07	.23452	.24258	.25246	.26240	.27258	.28252	.29180	.30194	.31136	.32134	.33222	.34174	.35220	.36174	.37072	.37910	.38806	.39720	.40518	.41432
0.08	.26196	.26880	.27730	.28648	.29574	.30482	.31358	.32320	.33194	.34142	.35166	.36080	.37072	.37976	.38820	.39634	.40492	.41372	.42142	.43020
0.09	.28666	.29264	.30016	.30840	.31702	.32544	.33368	.34262	.35098	.36002	.36990	.37868	.38800	.39666	.40488	.41270	.42092	.42930	.43674	.44516
0.10	.30882	.31390	.32064	.32804	.33618	.34400	.35184	.36040	.36832	.37680	.38600	.39430	.40334	.41152	.41940	.42694	.43492	.44294	.45018	.45824
0.11	.33094	.33526	.34144	.34814	.35564	.36292	.37032	.37852	.38588	.39402	.40280	.41064	.41944	.42754	.43490	.44206	.44976	.45752	.46444	.47220
0.12	.35260	.35652	.36196	.36806	.37492	.38168	.38860	.39622	.40312	.41074	.41916	.42672	.43514	.44270	.44982	.45662	.46460	.47140	.47802	.48544
0.13	.37324	.37664	.38140	.38702	.39332	.39948	.40598	.41330	.41978	.42700	.43498	.44220	.45018	.45742	.46408	.47062	.47768	.48478	.49114	.49818
0.14	.39254	.39566	.39996	.40516	.41100	.41666	.42262	.42946	.43552	.44246	.45000	.45682	.46446	.47148	.47780	.48420	.49088	.49772	.50384	.51062
0.15	.41184	.41470	.41872	.42322	.42852	.43370	.43922	.44550	.45112	.45772	.46492	.47150	.47884	.48548	.49148	.49748	.50392	.51054	.51642	.52356
0.16	.42890	.43148	.43526	.43936	.44408	.44880	.45380	.45974	.46490	.47122	.47800	.48424	.49114	.49738	.50312	.50892	.51508	.52152	.52720	.53346
0.17	.44724	.44968	.45314	.45680	.46108	.46532	.47010	.47554	.48020	.48604	.49238	.49824	.50466	.51074	.51604	.52164	.52754	.53364	.53916	.54514
0.18	.46416	.46650	.46978	.47302	.47670	.48042	.48486	.48996	.49420	.49982	.50580	.51142	.51754	.52346	.52850	.53370	.53936	.54534	.55050	.55620
0.19	.47850	.48076	.48384	.48664	.49000	.49352	.49764	.50228	.50622	.51152	.51712	.52252	.52844	.53418	.53900	.54392	.54934	.55518	.56016	.56560
0.20	.49438	.49652	.49942	.50196	.50508	.50836	.51220	.51648	.52010	.52506	.53030	.53542	.54096	.54644	.55104	.55574	.56098	.56664	.57144	.57674

Table E.2 Power tables of $CM(Ref) - V$ against Exponential ditribution

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 15$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03706	.06742	.09348	.11422	.13540	.15514	.17534	.19472	.21334	.23062	.24774	.26376	.27804	.29166	.30572	.32012	.33196	.34502	.35808
0.02	.10466	.13362	.15892	.18084	.19828	.21676	.23346	.25090	.26800	.28458	.29970	.31474	.32898	.34178	.35394	.36632	.37950	.39002	.40156	.41328
0.03	.19032	.21356	.23458	.25324	.26796	.28402	.29862	.31388	.32876	.34330	.35696	.37020	.38286	.39428	.40512	.41636	.42816	.43778	.44820	.45880
0.04	.25360	.27284	.29102	.30752	.32032	.33428	.34724	.36070	.37418	.38744	.40004	.41188	.42340	.43394	.44390	.45432	.46530	.47418	.48372	.49334
0.05	.30822	.32414	.34004	.35466	.36574	.37802	.38992	.40206	.41410	.42642	.43810	.44888	.45930	.46920	.47816	.48772	.49790	.50620	.51488	.52378
0.06	.35312	.36674	.38066	.39354	.40352	.41458	.42526	.43624	.44738	.45866	.46954	.47982	.48930	.49852	.50680	.51538	.52490	.53256	.54064	.54880
0.07	.39610	.40816	.42016	.43140	.44008	.45006	.45960	.46972	.48000	.49024	.50002	.50944	.51824	.52682	.53432	.54240	.55128	.55842	.56580	.57360
0.08	.42940	.43974	.45036	.46040	.46816	.47716	.48600	.49530	.50498	.51466	.52388	.53262	.54082	.54878	.55586	.56346	.57176	.57844	.58528	.59266
0.09	.46070	.46988	.47952	.48864	.49570	.50386	.51186	.52056	.52940	.53856	.54714	.55530	.56298	.57024	.57698	.58428	.59202	.59834	.60478	.61172
0.10	.49130	.49962	.50802	.51568	.52224	.52968	.53706	.54496	.55314	.56152	.56936	.57702	.58428	.59110	.59744	.60418	.61146	.61738	.62350	.63016
0.11	.51716	.52484	.53232	.53924	.54518	.55202	.55898	.56628	.57386	.58162	.58898	.59588	.60276	.60914	.61520	.62158	.62850	.63414	.63986	.64600
0.12	.54088	.54802	.55474	.56114	.56656	.57260	.57910	.58588	.59276	.59986	.60648	.61286	.61932	.62512	.63094	.63704	.64366	.64918	.65450	.66022
0.13	.56206	.56844	.57468	.58038	.58520	.59076	.59672	.60298	.60950	.61614	.62234	.62820	.63430	.63982	.64532	.65084	.65714	.66222	.66722	.67260
0.14	.58170	.58762	.59330	.59838	.60286	.60794	.61338	.61926	.62532	.63132	.63704	.64252	.64834	.65362	.65886	.66408	.66998	.67478	.67950	.68474
0.15	.60108	.60660	.61172	.61638	.62052	.62516	.62998	.63544	.64104	.64640	.65168	.65674	.66212	.66710	.67216	.67704	.68268	.68732	.69186	.69672
0.16	.62002	.62522	.62998	.63422	.63806	.64220	.64664	.65152	.65666	.66168	.66670	.67152	.67644	.68122	.68606	.69072	.69602	.70028	.70458	.70912
0.17	.63660	.64150	.64588	.64972	.65336	.65720	.66126	.66590	.67064	.67524	.67978	.68432	.68890	.69354	.69816	.70252	.70734	.71130	.71534	.71976
0.18	.65100	.65570	.65980	.66342	.66688	.67050	.67440	.67884	.68336	.68752	.69178	.69610	.70046	.70480	.70914	.71312	.71778	.72114	.72516	.72940
0.19	.66618	.67068	.67444	.67772	.68078	.68400	.68758	.69156	.69564	.69948	.70348	.70742	.71156	.71558	.71964	.72346	.72792	.73142	.73498	.73904
0.20	.68068	.68488	.68842	.69130	.69416	.69714	.70048	.70420	.70802	.71154	.71532	.71914	.72306	.72678	.73066	.73428	.73846	.74178	.74514	.74910

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 20$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04832	.08688	.12198	.14858	.17278	.19588	.21898	.23832	.25920	.27632	.29556	.31196	.32742	.34216	.35728	.37200	.38580	.39866	.41146
0.02	.17120	.20628	.23610	.26334	.28578	.30274	.32142	.34002	.35480	.37198	.38640	.40194	.41552	.42866	.44114	.45412	.46650	.47808	.48858	.49940
0.03	.28576	.31320	.33762	.36008	.37710	.39254	.40806	.42352	.43626	.45088	.46306	.47622	.48770	.49906	.50986	.52104	.53184	.54174	.55068	.55986
0.04	.36858	.39124	.41130	.43046	.44486	.45782	.47102	.48440	.49536	.50782	.51842	.52980	.53970	.54986	.55946	.56930	.57864	.58744	.59546	.60360
0.05	.43512	.45390	.47100	.48726	.49964	.51084	.52240	.53422	.54412	.55524	.56446	.57466	.58374	.59282	.60164	.61034	.61880	.62636	.63390	.64100
0.06	.48836	.50438	.51886	.53314	.54390	.55360	.56356	.57398	.58302	.59300	.60142	.61052	.61886	.62710	.63512	.64248	.64972	.65674	.66356	.67010
0.07	.53254	.54660	.55886	.57124	.58024	.58868	.59770	.60704	.61504	.62402	.63178	.63964	.64724	.65472	.66200	.66882	.67542	.68172	.68810	.69402
0.08	.57060	.58286	.59380	.60464	.61262	.62030	.62832	.63658	.64366	.65154	.65840	.66552	.67240	.67932	.68590	.69214	.69826	.70412	.70996	.71546
0.09	.59884	.61012	.62026	.62998	.63718	.64406	.65142	.65902	.66552	.67268	.67886	.68548	.69190	.69818	.70434	.71004	.71584	.72138	.72684	.73206
0.10	.62774	.63790	.64700	.65584	.66206	.66822	.67488	.68166	.68780	.69418	.69982	.70610	.71206	.71788	.72362	.72904	.73446	.73986	.74468	.74962
0.11	.65258	.66206	.67026	.67798	.68356	.68932	.69526	.70132	.70672	.71276	.71792	.72370	.72910	.73448	.73996	.74496	.75012	.75498	.75978	.76442
0.12	.67644	.68516	.69260	.69968	.70456	.70980	.71522	.72080	.72568	.73116	.73550	.74124	.74630	.75120	.75632	.76096	.76572	.77012	.77444	.77862
0.13	.69636	.70452	.71146	.71800	.72238	.72718	.73194	.73686	.74138	.74644	.75066	.75580	.76042	.76500	.76980	.77420	.77846	.78266	.78666	.79050
0.14	.71524	.72286	.72930	.73540	.73930	.74384	.74820	.75246	.75646	.76108	.76496	.76978	.77404	.77834	.78284	.78714	.79114	.79508	.79878	.80234
0.15	.73230	.73942	.74540	.75108	.75466	.75878	.76276	.76666	.77036	.77454	.77822	.78262	.78662	.79056	.79488	.79882	.80268	.80630	.80962	.81296
0.16	.74862	.75522	.76066	.76606	.76938	.77324	.77678	.78038	.78370	.78740	.79086	.79490	.79866	.80228	.80628	.80988	.81344	.81676	.81986	.82306
0.17	.76388	.77028	.77534	.78038	.78344	.78706	.79020	.79354	.79656	.79998	.80308	.80674	.81024	.81354	.81722	.82062	.82398	.82714	.82998	.83292
0.18	.77808	.78206	.78684	.79186	.79434	.79752	.80034	.80340	.80624	.80938	.81222	.81564	.81902	.82204	.82538	.82870	.83182	.83478	.83742	.84022
0.19	.78910	.79478	.79916	.80348	.80604	.80896	.81148	.81436	.81694	.81984	.82246	.82588	.82888	.83168	.83484	.83792	.84088	.84358	.84604	.84874
0.20	.80120	.80658	.81080	.81490	.81730	.81994	.82220	.82486	.82710	.82974	.83220	.83520	.83814	.84066	.84368	.84648	.84920	.85178	.85410	.85668

Table B.3 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 25$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.05908	.10140	.14466	.17972	.20932	.23476	.25762	.28068	.30088	.32112	.34194	.35864	.37520	.38952	.40484	.41986	.43356	.44802	.46126
0.02	.23744	.27944	.30960	.34002	.36584	.38708	.40586	.42298	.44072	.45562	.47082	.48656	.49940	.51196	.52266	.53448	.54588	.55694	.56814	.57852
0.03	.37922	.41134	.43424	.45738	.47750	.49400	.50910	.52292	.53720	.54932	.56188	.57442	.58490	.59532	.60412	.61340	.62276	.63166	.64058	.64878
0.04	.48350	.50844	.52636	.54462	.56064	.57442	.58640	.59756	.60918	.61922	.62960	.64016	.64872	.65772	.66500	.67286	.68052	.68780	.69526	.70212
0.05	.55216	.57340	.58814	.60342	.61688	.62832	.63870	.64820	.65824	.66698	.67596	.68486	.69258	.70058	.70680	.71334	.72008	.72654	.73272	.73848
0.06	.60470	.62278	.63516	.64830	.65958	.66932	.67806	.68598	.69488	.70258	.71054	.71854	.72530	.73256	.73794	.74370	.74974	.75538	.76094	.76594
0.07	.64870	.66436	.67520	.68638	.69632	.70478	.71246	.71948	.72704	.73376	.74088	.74792	.75402	.76034	.76504	.77002	.77538	.78048	.78536	.78986
0.08	.68748	.70126	.71034	.71994	.72868	.73612	.74300	.74932	.75616	.76212	.76848	.77472	.78016	.78546	.78978	.79412	.79898	.80360	.80792	.81196
0.09	.71852	.73054	.73866	.74716	.75490	.76122	.76734	.77288	.77900	.78440	.79020	.79566	.80064	.80548	.80926	.81324	.81774	.82200	.82596	.82966
0.10	.74556	.75662	.76366	.77130	.77826	.78372	.78930	.79430	.79956	.80452	.80966	.81462	.81912	.82330	.82682	.83046	.83446	.83826	.84184	.84530
0.11	.77136	.78142	.78774	.79456	.80044	.80528	.81012	.81450	.81912	.82360	.82830	.83276	.83692	.84076	.84390	.84732	.85072	.85402	.85716	.86016
0.12	.78966	.79902	.80472	.81102	.81634	.82068	.82496	.82894	.83312	.83732	.84156	.84566	.84950	.85290	.85568	.85880	.86188	.86480	.86750	.87026
0.13	.80592	.81428	.81962	.82528	.83014	.83404	.83786	.84154	.84534	.84930	.85298	.85672	.86028	.86336	.86596	.86882	.87170	.87444	.87698	.87956
0.14	.82128	.82894	.83372	.83892	.84340	.84686	.85042	.85390	.85724	.86090	.86414	.86750	.87080	.87374	.87612	.87888	.88150	.88400	.88620	.88864
0.15	.83520	.84240	.84676	.85148	.85554	.85868	.86178	.86496	.86804	.87134	.87438	.87742	.88044	.88312	.88530	.88778	.89014	.89236	.89436	.89658
0.16	.84928	.85574	.85984	.86402	.86770	.87048	.87326	.87612	.87890	.88178	.88450	.88718	.88980	.89210	.89402	.89632	.89834	.90020	.90204	.90396
0.17	.86122	.86724	.87106	.87488	.87824	.88066	.88312	.88566	.88816	.89080	.89324	.89556	.89800	.89996	.90170	.90378	.90564	.90740	.90906	.91076
0.18	.87036	.87598	.87946	.88290	.88612	.88838	.89066	.89306	.89538	.89782	.90018	.90238	.90460	.90646	.90806	.90998	.91168	.91334	.91478	.91628
0.19	.87964	.88488	.88810	.89124	.89408	.89618	.89824	.90044	.90258	.90480	.90698	.90892	.91096	.91256	.91406	.91580	.91734	.91884	.92018	.92158
0.20	.88846	.89328	.89620	.89898	.90152	.90350	.90540	.90734	.90924	.91132	.91338	.91528	.91716	.91874	.92016	.92184	.92322	.92466	.92592	.92718

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 30$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.07336	.12214	.16288	.19956	.23082	.25774	.28874	.31206	.33548	.35444	.37186	.39070	.40820	.42456	.43904	.45408	.46812	.48114	.49590
0.02	.32428	.37018	.40190	.42794	.45182	.47284	.49020	.51102	.52606	.54092	.55380	.56606	.57916	.59086	.60176	.61172	.62146	.63160	.64064	.65060
0.03	.47436	.50828	.53152	.55102	.56890	.58530	.59844	.61480	.62642	.63770	.64720	.65686	.66712	.67608	.68486	.69260	.70020	.70826	.71500	.72266
0.04	.58098	.60722	.62534	.64016	.65376	.66638	.67722	.69044	.70004	.70882	.71616	.72392	.73192	.73914	.74598	.75206	.75816	.76452	.77002	.77592
0.05	.65502	.67658	.69106	.70320	.71390	.72380	.73266	.74326	.75096	.75776	.76394	.77018	.77684	.78310	.78870	.79346	.79870	.80382	.80816	.81306
0.06	.70790	.72580	.73808	.74824	.75724	.76516	.77280	.78146	.78774	.79342	.79844	.80376	.80934	.81466	.81932	.82344	.82794	.83224	.83606	.83984
0.07	.75074	.76614	.77634	.78508	.79236	.79920	.80570	.81276	.81818	.82282	.82706	.83144	.83614	.84066	.84456	.84780	.85172	.85548	.85870	.86202
0.08	.78172	.79500	.80416	.81162	.81796	.82382	.82968	.83610	.84074	.84488	.84850	.85230	.85600	.86008	.86368	.86652	.869	.87324	.87584	.87866
0.09	.80886	.82016	.82842	.83506	.84062	.84566	.85072	.85608	.86010	.86364	.86666	.86988	.87294	.87652	.87962	.88192	.88470	.88786	.89020	.89242
0.10	.83320	.84292	.85028	.85592	.86062	.86420	.86928	.87376	.87712	.87998	.88280	.88574	.88830	.89146	.89428	.89622	.89876	.90136	.90348	.90536
0.11	.84982	.85852	.86510	.87030	.87458	.87858	.88222	.88602	.88910	.89168	.89414	.89678	.89900	.90196	.90446	.90600	.90834	.91060	.91234	.91406
0.12	.86552	.87324	.87928	.88412	.88790	.89144	.89458	.89788	.90062	.90276	.90496	.90722	.90926	.91170	.91402	.91544	.91748	.91940	.92100	.92256
0.13	.87608	.88316	.88678	.89310	.89666	.89978	.90264	.90572	.90818	.91016	.91204	.91412	.91602	.91824	.92034	.92164	.92356	.92542	.92682	.92826
0.14	.88822	.89452	.89974	.90356	.90674	.90952	.91226	.91510	.91738	.91918	.92076	.92260	.92422	.92628	.92808	.92926	.93090	.93262	.93386	.93512
0.15	.89932	.90494	.90966	.91294	.91582	.91832	.92090	.92346	.92554	.92712	.92848	.93020	.93172	.93366	.93526	.93618	.93762	.93908	.94014	.94126
0.16	.90876	.91392	.91806	.92104	.92368	.92590	.92830	.93048	.93212	.93358	.93488	.93630	.93766	.93946	.94094	.94174	.94304	.94440	.94538	.94632
0.17	.91642	.92116	.92490	.92776	.93028	.93226	.93450	.93654	.93804	.93926	.94042	.94172	.94304	.94454	.94582	.94658	.94770	.94886	.94976	.95064
0.18	.92338	.92776	.93106	.93370	.93604	.93786	.93996	.94180	.94310	.94432	.94544	.94664	.94788	.94918	.95032	.95106	.95210	.95312	.95390	.95474
0.19	.93004	.93402	.93702	.93946	.94164	.94332	.94512	.94678	.94786	.94892	.94996	.95104	.95224	.95334	.95430	.95502	.95600	.95696	.95784	.95836
0.20	.93720	.94080	.94348	.94570	.94754	.94890	.95040	.95178	.95276	.95374	.95466	.95552	.95664	.95764	.95854	.95916	.96010	.96102	.96164	.96230

Table E.3 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 35$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.09006	.14766	.19192	.22842	.26122	.29066	.31660	.34362	.36596	.38834	.40814	.42686	.44442	.46334	.47898	.49478	.50896	.52250	.53652
0.02	.37620	.43078	.46548	.49334	.51564	.53472	.55326	.57040	.58706	.60070	.61474	.62740	.63902	.65028	.66168	.67156	.68140	.69032	.69962	.70844
0.03	.56078	.59918	.62298	.64224	.65744	.67064	.68386	.69562	.70698	.71662	.72678	.73552	.74338	.75148	.75890	.76620	.77338	.77992	.78682	.79296
0.04	.66882	.69684	.71494	.72928	.73968	.74978	.75940	.76830	.77662	.78362	.79144	.79834	.80442	.81024	.81566	.82126	.82688	.83178	.83680	.84118
0.05	.73270	.75524	.76996	.78162	.78968	.79776	.80526	.81218	.81896	.82464	.83090	.83640	.84120	.84558	.85006	.85474	.85928	.86328	.86722	.87080
0.06	.78522	.80308	.81460	.82382	.83020	.83660	.84266	.84824	.85386	.85816	.86302	.86756	.87164	.87520	.87904	.88266	.88648	.88992	.89330	.89628
0.07	.81758	.83276	.84250	.85024	.85532	.86050	.86582	.87036	.87488	.87836	.88242	.88640	.88978	.89286	.89618	.89922	.90222	.90500	.90800	.91074
0.08	.84720	.85978	.86770	.87420	.87834	.88224	.88680	.89058	.89436	.89734	.90080	.90416	.90686	.90942	.91214	.91472	.91712	.91962	.92212	.92446
0.09	.87096	.88152	.88802	.89364	.89712	.90020	.90418	.90726	.91024	.91282	.91576	.91852	.92082	.92298	.92526	.92742	.92940	.93154	.93362	.93556
0.10	.88916	.89796	.90344	.90818	.91100	.91370	.91696	.91966	.92212	.92428	.92680	.92936	.93138	.93316	.93510	.93704	.93880	.94066	.94254	.94428
0.11	.90358	.91134	.91596	.91998	.92256	.92492	.92772	.93016	.93228	.93416	.93644	.93862	.94048	.94210	.94380	.94548	.94702	.94844	.95004	.95154
0.12	.91440	.92122	.92516	.92860	.93076	.93288	.93528	.93756	.93934	.94096	.94302	.94504	.94674	.94814	.94970	.95130	.95268	.95404	.95536	.95672
0.13	.92640	.93226	.93566	.93848	.94034	.94202	.94400	.94594	.94748	.94892	.95078	.95252	.95394	.95520	.95648	.95794	.95912	.96010	.96126	.96240
0.14	.93716	.94200	.94494	.94730	.94908	.95044	.95200	.95372	.95490	.95588	.95754	.95922	.96050	.96154	.96262	.96396	.96498	.96572	.96668	.96766
0.15	.94440	.94880	.95150	.95362	.95516	.95642	.95766	.95910	.96012	.96094	.96246	.96398	.96520	.96610	.96702	.96824	.96924	.96990	.97068	.97138
0.16	.94912	.95316	.95572	.95754	.95874	.95992	.96108	.96240	.96336	.96410	.96542	.96678	.96790	.96872	.96958	.97072	.97166	.97220	.97290	.97356
0.17	.95562	.95902	.96122	.96264	.96398	.96502	.96606	.96720	.96806	.96872	.96986	.97094	.97188	.97256	.97324	.97424	.97508	.97556	.97614	.97678
0.18	.95936	.96250	.96446	.96578	.96702	.96804	.96896	.96998	.97072	.97130	.97232	.97330	.97418	.97480	.97544	.97636	.97710	.97756	.97810	.97866
0.19	.96510	.96768	.96934	.97036	.97150	.97238	.97322	.97408	.97464	.97510	.97600	.97684	.97764	.97818	.97872	.97960	.98030	.98080	.98110	.98148
0.20	.96950	.97164	.97306	.97396	.97504	.97582	.97654	.97716	.97762	.97796	.97870	.97944	.98008	.98054	.98098	.98162	.98224	.98250	.98296	.98328

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 40$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10240	.16898	.22042	.26306	.29992	.32908	.35744	.38488	.40968	.42858	.44770	.46890	.48772	.50632	.52114	.53568	.54886	.56356	.57728
0.02	.45644	.51234	.54792	.57564	.59974	.61902	.63552	.65116	.66604	.67948	.68924	.69952	.71078	.72136	.73148	.73902	.74690	.75330	.76182	.76882
0.03	.63488	.67274	.69644	.71478	.73184	.74506	.75618	.76702	.77694	.78604	.79212	.79896	.80634	.81330	.82006	.82540	.83062	.83480	.84032	.84488
0.04	.74260	.76986	.78592	.79920	.81062	.81962	.82722	.83520	.84184	.84802	.85230	.85738	.86272	.86754	.87226	.87616	.87980	.88268	.88660	.88994
0.05	.81134	.83096	.84258	.85202	.86030	.86664	.87212	.87766	.88254	.88692	.89000	.89348	.89736	.90098	.90442	.90718	.90980	.91206	.91490	.91750
0.06	.85512	.87030	.87944	.88696	.89344	.89780	.90208	.90598	.90962	.91300	.91540	.91820	.92120	.92372	.92638	.92860	.93058	.93222	.93430	.93630
0.07	.89300	.90400	.91076	.91630	.92126	.92428	.92724	.93022	.93300	.93544	.93724	.93938	.94162	.94332	.94516	.94682	.94820	.94962	.95096	.95238
0.08	.91762	.92626	.93160	.93602	.93972	.94204	.94426	.94664	.94864	.95058	.95196	.95348	.95524	.95644	.95772	.95902	.96002	.96078	.96182	.96296
0.09	.93070	.93792	.94254	.94624	.94912	.95098	.95288	.95484	.95654	.95826	.95956	.96090	.96248	.96352	.96452	.96570	.96648	.96710	.96802	.96904
0.10	.94320	.94922	.95284	.95592	.95828	.95978	.96150	.96322	.96450	.96582	.96678	.96788	.96908	.96998	.97070	.97184	.97252	.97296	.97368	.97456
0.11	.95266	.95760	.96058	.96326	.96536	.96654	.96820	.96976	.97080	.97184	.97272	.97372	.97482	.97554	.97616	.97716	.97772	.97806	.97856	.97936
0.12	.96122	.96542	.96786	.97024	.97188	.97284	.97424	.97564	.97648	.97740	.97818	.97900	.97992	.98048	.98102	.98166	.98214	.98244	.98288	.98340
0.13	.96792	.97112	.97304	.97506	.97650	.97732	.97840	.97950	.98026	.98102	.98164	.98236	.98312	.98362	.98406	.98464	.98510	.98538	.98586	.98626
0.14	.97130	.97410	.97582	.97760	.97890	.97962	.98050	.98152	.98214	.98274	.98330	.98392	.98466	.98514	.98552	.98600	.98634	.98658	.98684	.98736
0.15	.97496	.97750	.97912	.98062	.98180	.98244	.98318	.98404	.98448	.98504	.98554	.98612	.98674	.98718	.98752	.98794	.98826	.98844	.98864	.98912
0.16	.97722	.97962	.98114	.98256	.98356	.98418	.98488	.98560	.98602	.98648	.98698	.98754	.98812	.98852	.98878	.98918	.98948	.98960	.98978	.99024
0.17	.98060	.98262	.98400	.98536	.98630	.98662	.98726	.98784	.98822	.98862	.98904	.98948	.98998	.99022	.99046	.99060	.99104	.99116	.99134	.99176
0.18	.98382	.98538	.98658	.98770	.98852	.98878	.98934	.98986	.99020	.99056	.99086	.99118	.99160	.99184	.99204	.99222	.99244	.99252	.99270	.99306
0.19	.98518	.98656	.98766	.98874	.98954	.98978	.99026	.99074	.99104	.99136	.99162	.99184	.99220	.99242	.99262	.99280	.99302	.99310	.99328	.99364
0.20	.98802	.98904	.99006	.99094	.99154	.99178	.99206	.99248	.99274	.99304	.99322	.99344	.99370	.99386	.99398	.99414	.99432	.99440	.99454	.99486

Table B.3 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 45$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10552	.17476	.23212	.27658	.31554	.35144	.38126	.40744	.43234	.45644	.47646	.49588	.51398	.53198	.54944	.56530	.57986	.59292	.60622
0.02	.53606	.58430	.61532	.64074	.66048	.67846	.69488	.70962	.72190	.73406	.74574	.75510	.76384	.77308	.78198	.78976	.79744	.80530	.81166	.81786
0.03	.71118	.74168	.76090	.77604	.78808	.79968	.80936	.81852	.82642	.83372	.84156	.84720	.85228	.85810	.86356	.86860	.87348	.87860	.88230	.88616
0.04	.80146	.82272	.83604	.84616	.85480	.86252	.86962	.87612	.88196	.88656	.89196	.89592	.89936	.90330	.90698	.91058	.91362	.91696	.91970	.92224
0.05	.86396	.87898	.88826	.89446	.90062	.90594	.91064	.91526	.91914	.92224	.92598	.92866	.93108	.93392	.93672	.93924	.94136	.94372	.94562	.94712
0.06	.90242	.91316	.91930	.92368	.92792	.93162	.93516	.93838	.94132	.94342	.94616	.94812	.94992	.95182	.95394	.95574	.95720	.95886	.96036	.96148
0.07	.92858	.93622	.94102	.94396	.94724	.94978	.95230	.95438	.95670	.95840	.96044	.96194	.96322	.96474	.96614	.96746	.96842	.96958	.97072	.97140
0.08	.94010	.94646	.95040	.95282	.95572	.95800	.96030	.96198	.96374	.96514	.96688	.96800	.96892	.97026	.97142	.97260	.97340	.97428	.97522	.97576
0.09	.95326	.95820	.96126	.96326	.96554	.96732	.96908	.97042	.97172	.97284	.97438	.97518	.97598	.97708	.97800	.97884	.97946	.98024	.98096	.98138
0.10	.96108	.96522	.96786	.96960	.97144	.97296	.97446	.97544	.97634	.97720	.97866	.97922	.97998	.98086	.98156	.98228	.98282	.98352	.98416	.98450
0.11	.96944	.97278	.97468	.97590	.97734	.97856	.97976	.98054	.98120	.98184	.98302	.98348	.98406	.98464	.98516	.98560	.98622	.98684	.98734	.98760
0.12	.97612	.97874	.98028	.98126	.98236	.98332	.98420	.98478	.98518	.98570	.98668	.98696	.98752	.98802	.98836	.98880	.98904	.98954	.99000	.99020
0.13	.98546	.98712	.98792	.98844	.98924	.98982	.99032	.99070	.99090	.99122	.99184	.99206	.99244	.99272	.99290	.99316	.99332	.99360	.99394	.99402
0.14	.98882	.99002	.99064	.99102	.99160	.99204	.99244	.99278	.99296	.99322	.99378	.99394	.99420	.99442	.99458	.99480	.99496	.99522	.99550	.99556
0.15	.98962	.99074	.99134	.99170	.99222	.99262	.99296	.99330	.99348	.99372	.99428	.99442	.99466	.99488	.99504	.99524	.99540	.99564	.99590	.99592
0.16	.99048	.99150	.99202	.99232	.99272	.99306	.99336	.99366	.99386	.99408	.99464	.99476	.99502	.99524	.99540	.99560	.99570	.99594	.99618	.99620
0.17	.99298	.99372	.99402	.99424	.99454	.99476	.99502	.99524	.99538	.99554	.99596	.99608	.99628	.99644	.99652	.99672	.99680	.99702	.99722	.99722
0.18	.99366	.99432	.99460	.99482	.99508	.99526	.99550	.99568	.99582	.99598	.99630	.99640	.99660	.99672	.99680	.99696	.99700	.99722	.99740	.99740
0.19	.99520	.99560	.99574	.99588	.99614	.99628	.99648	.99660	.99662	.99676	.99702	.99712	.99728	.99736	.99744	.99756	.99758	.99774	.99792	.99792
0.20	.99660	.99688	.99696	.99708	.99724	.99736	.99748	.99756	.99758	.99772	.99786	.99796	.99804	.99806	.99814	.99824	.99824	.99830	.99842	.99842

Powers of $CM(Ref) - V$ Sequential test against Exponential for $n = 50$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.11234	.19042	.24882	.29698	.34038	.37832	.40910	.43880	.46146	.48620	.50556	.52458	.54162	.55810	.57574	.59096	.60560	.61942	.63256
0.02	.58836	.63400	.66606	.69044	.70972	.72740	.74380	.75816	.76910	.77818	.78874	.79710	.80506	.81198	.81840	.82556	.83120	.83714	.84240	.84752
0.03	.76538	.79260	.81038	.82450	.83560	.84580	.85480	.86220	.87006	.87552	.88132	.88662	.89098	.89498	.89870	.90258	.90562	.90818	.91206	.91492
0.04	.85416	.87108	.88202	.89124	.89866	.90492	.91040	.91470	.91974	.92292	.92624	.92932	.93198	.93456	.93674	.93928	.94116	.94316	.94496	.94702
0.05	.89878	.91020	.91774	.92370	.92880	.93362	.93726	.94012	.94364	.94600	.94818	.95022	.95214	.95394	.95518	.95694	.95836	.95984	.96100	.96240
0.06	.92152	.92988	.93584	.94094	.94506	.94852	.95130	.95350	.95644	.95838	.96014	.96186	.96330	.96472	.96566	.96684	.96782	.96904	.97002	.97116
0.07	.93536	.94250	.94742	.95180	.95490	.95808	.96040	.96210	.96448	.96602	.96748	.96908	.97038	.97156	.97230	.97328	.97400	.97496	.97566	.97646
0.08	.94940	.95508	.95902	.96236	.96474	.96718	.96896	.97018	.97170	.97298	.97428	.97516	.97622	.97716	.97776	.97862	.97928	.98002	.98060	.98116
0.09	.95964	.96422	.96752	.97016	.97192	.97386	.97516	.97610	.97734	.97832	.97926	.98004	.98084	.98154	.98204	.98284	.98332	.98396	.98444	.98494
0.10	.96444	.96846	.97156	.97380	.97508	.97690	.97798	.97882	.97990	.98084	.98160	.98224	.98290	.98356	.98404	.98464	.98508	.98560	.98604	.98644
0.11	.98176	.98390	.98574	.98708	.98774	.98864	.98920	.98964	.99024	.99068	.99102	.99154	.99192	.99222	.99240	.99254	.99270	.99296	.99308	.99326
0.12	.98250	.98462	.98638	.98766	.98832	.98922	.98974	.99018	.99074	.99118	.99152	.99204	.99240	.99270	.99288	.99302	.99318	.99340	.99352	.99364
0.13	.98570	.98768	.98900	.98998	.99048	.99122	.99164	.99200	.99242	.99284	.99316	.99364	.99400	.99420	.99438	.99452	.99462	.99478	.99488	.99498
0.14	.99044	.99192	.99278	.99338	.99368	.99418	.99438	.99472	.99510	.99534	.99554	.99572	.99594	.99604	.99612	.99622	.99632	.99644	.99654	.99660
0.15	.99044	.99192	.99278	.99338	.99368	.99418	.99438	.99472	.99510	.99534	.99554	.99572	.99594	.99604	.99612	.99622	.99632	.99644	.99654	.99660
0.16	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99774	.99780
0.17	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99774	.99780
0.18	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99774	.99780
0.19	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99774	.99780
0.20	.99318	.99450	.99510	.99552	.99578	.99622	.99638	.99656	.99682	.99694	.99712	.99724	.99736	.99744	.99752	.99758	.99766	.99770	.99774	.99780

Table B.3 (Continued)

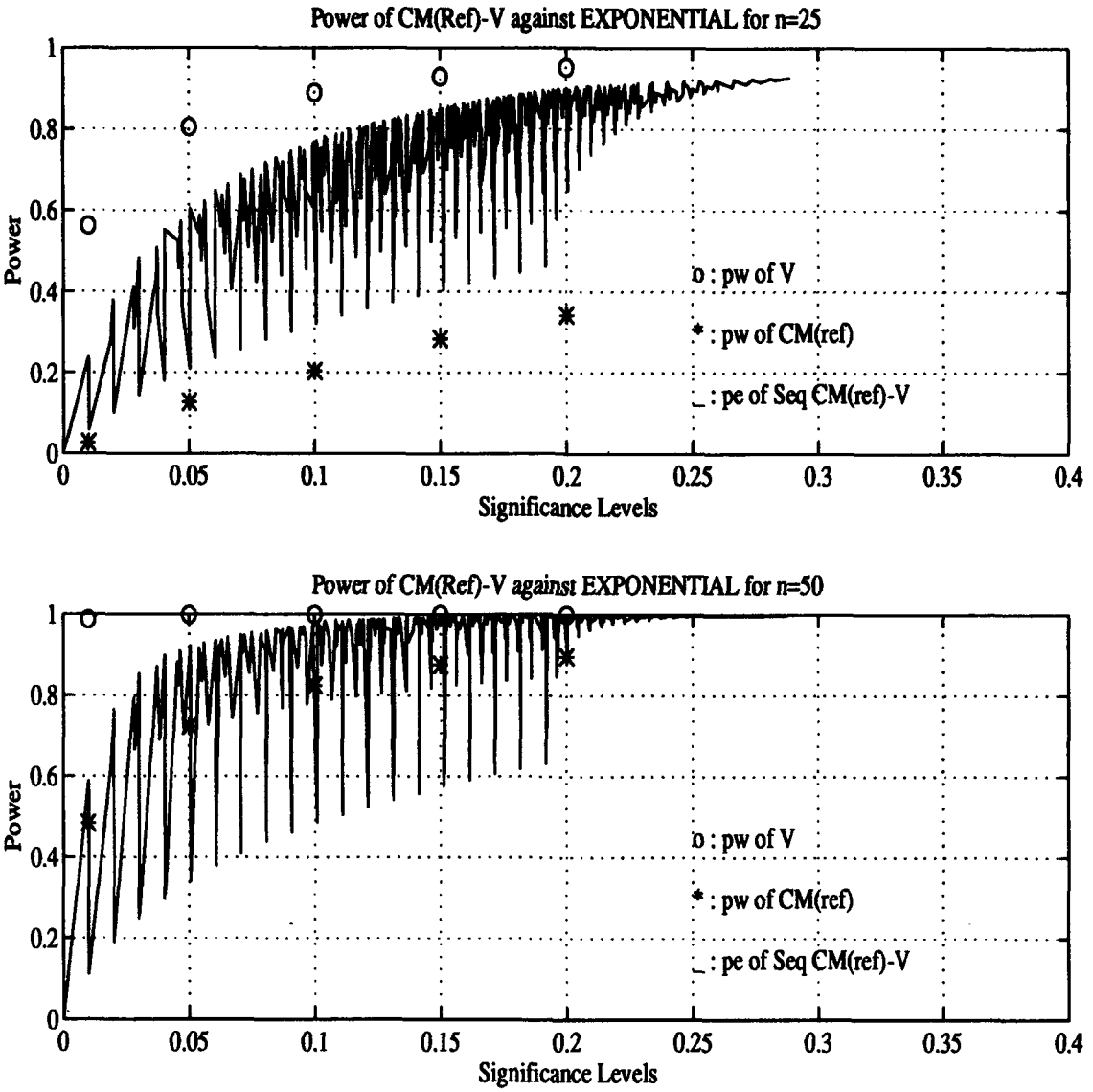

Figure E.2 Power comparisons of $CM(Ref) - V$ against Exponential

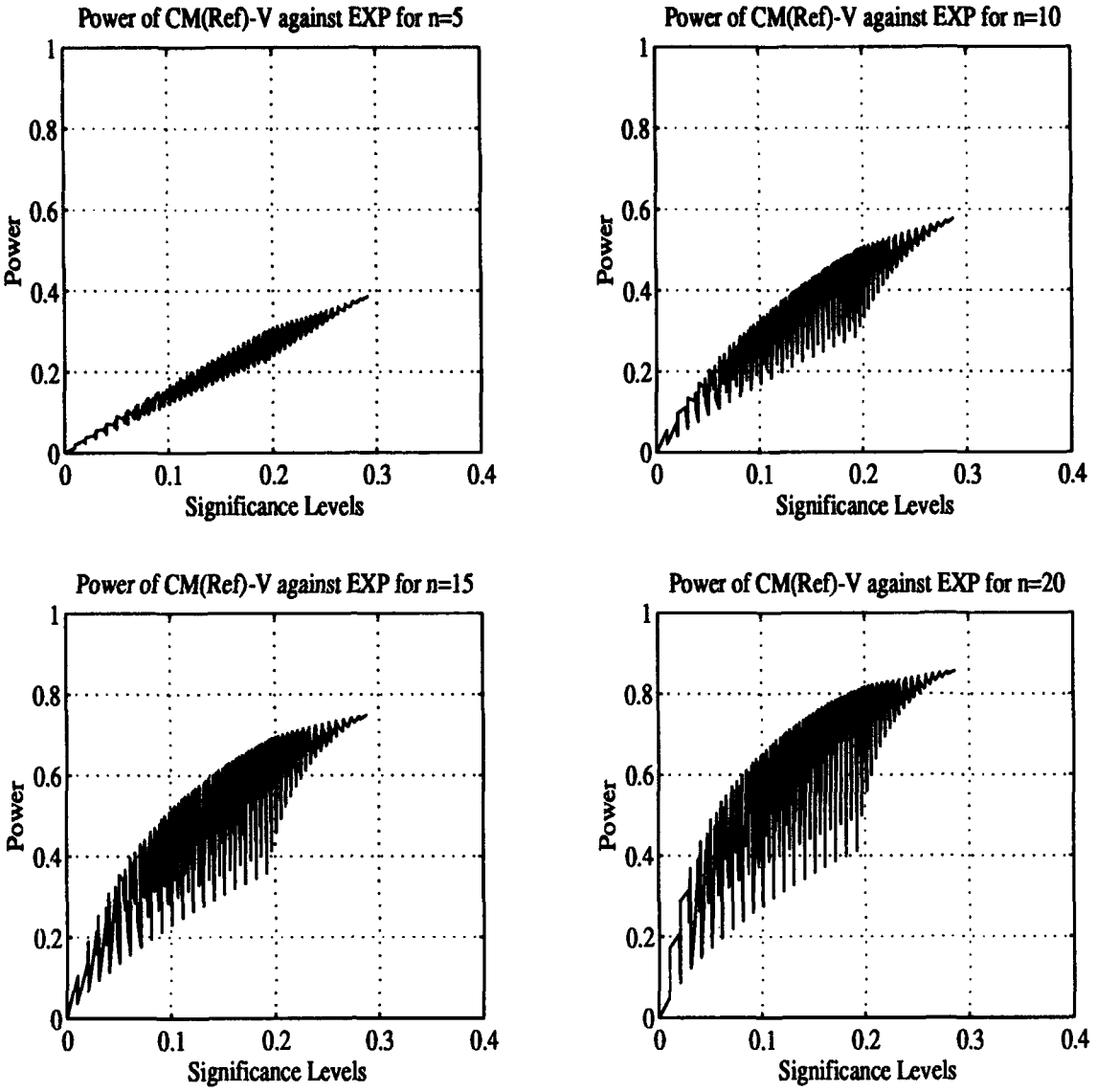

Figure E.2 (Continued)

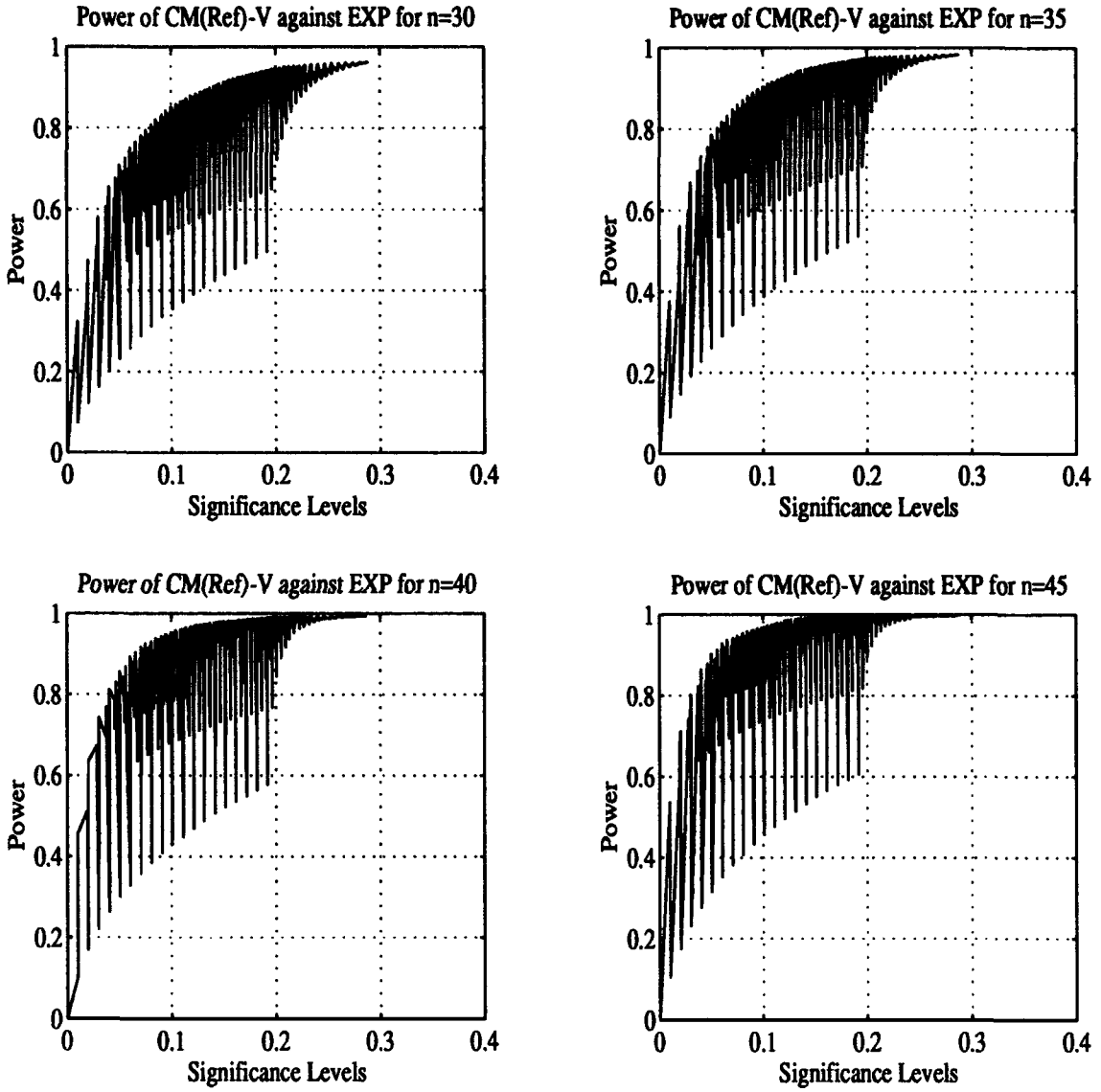

Figure E.2 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 5$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01210	.02186	.03184	.04146	.05246	.06192	.07292	.08378	.09458	.10468	.11612	.12628	.13640	.14698	.15584	.16524	.17546	.18556	.19538
0.02	.01598	.02782	.03652	.04586	.05488	.06502	.07364	.08340	.09270	.10230	.11220	.12386	.13364	.14386	.15402	.16282	.17212	.18228	.19232	.20206
0.03	.03018	.04136	.04980	.05850	.06716	.07688	.08514	.09422	.10258	.11124	.12052	.13158	.14146	.15118	.16144	.17014	.17928	.18924	.19912	.20876
0.04	.04502	.05584	.06398	.07226	.08038	.08976	.09760	.10618	.11388	.12194	.13064	.14132	.15090	.16034	.17042	.17890	.18774	.19752	.20730	.21670
0.05	.05976	.07030	.07794	.08588	.09374	.10274	.11030	.11842	.12546	.13318	.14148	.15160	.16082	.17016	.18000	.18832	.19694	.20648	.21606	.22524
0.06	.07572	.08592	.09324	.10068	.10810	.11670	.12392	.13156	.13814	.14526	.15314	.16276	.17162	.18078	.19036	.19848	.20694	.21628	.22566	.23456
0.07	.08970	.09944	.10644	.11346	.12058	.12878	.13566	.14294	.14928	.15580	.16314	.17234	.18066	.18960	.19892	.20688	.21610	.22428	.23352	.24224
0.08	.10334	.11274	.11952	.12630	.13316	.14098	.14750	.15446	.16054	.16654	.17338	.18190	.18988	.19862	.20770	.21546	.22342	.23244	.24148	.25006
0.09	.11770	.12680	.13334	.13982	.14638	.15388	.16014	.16684	.17260	.17818	.18470	.19278	.20012	.20862	.21744	.22494	.23274	.24148	.25022	.25846
0.10	.13138	.14014	.14638	.15268	.15896	.16626	.17224	.17868	.18412	.18926	.19520	.20282	.20984	.21802	.22654	.23382	.24146	.25002	.25860	.26684
0.11	.14594	.15440	.16032	.16618	.17226	.17904	.18472	.19100	.19610	.20106	.20658	.21372	.22036	.22824	.23652	.24344	.25076	.25896	.26732	.27536
0.12	.16100	.16916	.17484	.18044	.18630	.19272	.19810	.20404	.20894	.21350	.21854	.22506	.23122	.23852	.24636	.25308	.26012	.26814	.27626	.28410
0.13	.17456	.18246	.18802	.19336	.19906	.20534	.21060	.21628	.22106	.22540	.23012	.23614	.24182	.24878	.25622	.26266	.26954	.27724	.28504	.29266
0.14	.18842	.19604	.20132	.20644	.21196	.21802	.22310	.22862	.23316	.23722	.24154	.24718	.25252	.25906	.26612	.27230	.27896	.28644	.29398	.30136
0.15	.20094	.20822	.21326	.21812	.22340	.22930	.23410	.23944	.24374	.24766	.25180	.25706	.26202	.26832	.27494	.28080	.28734	.29454	.30190	.30916
0.16	.21548	.22256	.22750	.23212	.23726	.24286	.24740	.25246	.25648	.26020	.26404	.26896	.27340	.27934	.28552	.29104	.29730	.30430	.31152	.31858
0.17	.22922	.23608	.24082	.24522	.25016	.25546	.25984	.26472	.26848	.27208	.27562	.28020	.28430	.28976	.29568	.30068	.30668	.31326	.32030	.32722
0.18	.24300	.24960	.25418	.25844	.26324	.26842	.27248	.27718	.28080	.28418	.28740	.29178	.29558	.30068	.30614	.31092	.31658	.32312	.32994	.33670
0.19	.25572	.26212	.26656	.27064	.27530	.28024	.28420	.28868	.29224	.29556	.29856	.30268	.30632	.31106	.31628	.32084	.32610	.33228	.33892	.34542
0.20	.26826	.27446	.27878	.28270	.28722	.29196	.29568	.29998	.30336	.30660	.30950	.31340	.31684	.32110	.32590	.33012	.33512	.34106	.34756	.35386

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 10$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03450	.06444	.09248	.11744	.14044	.16102	.18458	.20444	.22616	.24710	.26514	.28470	.30298	.31936	.33592	.35302	.36822	.38218	.39688
0.02	.03884	.07002	.09744	.12370	.14746	.16892	.18818	.21058	.22926	.25016	.27008	.28750	.30628	.32388	.33958	.35540	.37172	.38624	.39978	.41398
0.03	.07366	.10116	.12596	.15062	.17302	.19318	.21152	.23304	.25078	.27054	.28940	.30626	.32440	.34148	.35662	.37162	.38730	.40136	.41456	.42818
0.04	.10502	.12902	.15208	.17540	.19650	.21526	.23262	.25310	.26992	.28858	.30666	.32290	.34046	.35700	.37160	.38594	.40110	.41476	.42748	.44068
0.05	.13558	.15654	.17720	.19906	.21878	.23662	.25306	.27254	.28872	.30660	.32380	.33944	.35636	.37226	.38636	.40018	.41490	.42822	.44050	.45332
0.06	.16158	.17976	.19878	.21928	.23786	.25472	.27058	.28920	.30466	.32180	.33840	.35342	.36974	.38514	.39882	.41212	.42634	.43918	.45094	.46342
0.07	.18924	.20470	.22172	.24034	.25766	.27362	.28870	.30634	.32118	.33770	.35356	.36816	.38402	.39884	.41198	.42494	.43878	.45108	.46244	.47464
0.08	.21340	.22682	.24214	.25920	.27534	.29034	.30464	.32158	.33596	.35188	.36690	.38114	.39652	.41098	.42358	.43610	.44958	.46138	.47242	.48420
0.09	.23526	.24698	.26044	.27612	.29110	.30524	.31880	.33494	.34874	.36396	.37844	.39218	.40714	.42106	.43344	.44552	.45874	.47028	.48106	.49280
0.10	.25622	.26636	.27842	.29254	.30644	.31974	.33256	.34758	.36086	.37552	.38952	.40282	.41736	.43090	.44302	.45488	.46792	.47922	.48978	.50094
0.11	.27662	.28520	.29578	.30852	.32164	.33416	.34630	.36082	.37510	.38710	.40070	.41354	.42758	.44068	.45240	.46380	.47662	.48776	.49804	.50894
0.12	.29514	.30264	.31214	.32384	.33578	.34738	.35876	.37268	.38426	.39776	.41090	.42324	.43692	.44972	.46104	.47236	.48446	.49556	.50558	.51618
0.13	.31420	.32056	.32888	.33958	.35040	.36106	.37154	.38456	.39538	.40818	.42080	.43276	.44598	.45838	.46944	.48048	.49262	.50314	.51282	.52328
0.14	.33222	.33758	.34486	.35446	.36426	.37428	.38420	.39636	.40680	.41898	.43114	.44250	.45526	.46736	.47820	.48890	.50076	.51104	.52030	.53050
0.15	.34912	.35378	.36014	.36860	.37728	.38684	.39608	.40760	.41766	.42934	.44112	.45216	.46466	.47650	.48708	.49742	.50904	.51908	.52812	.53802
0.16	.36552	.36978	.37532	.38292	.39100	.39974	.40824	.41906	.42868	.44004	.45124	.46174	.47372	.48508	.49542	.50554	.51686	.52658	.53528	.54490
0.17	.38224	.38612	.39126	.39798	.40522	.41330	.42124	.43136	.44046	.45112	.46186	.47188	.48346	.49448	.50446	.51414	.52522	.53462	.54306	.55236
0.18	.39822	.40164	.40614	.41226	.41888	.42634	.43362	.44326	.45190	.46202	.47228	.48196	.49308	.50372	.51332	.52264	.53340	.54258	.55076	.55990
0.19	.41296	.41604	.42002	.42556	.43156	.43840	.44512	.45412	.46228	.47196	.48190	.49118	.50192	.51228	.52154	.53052	.54096	.55000	.55790	.56676
0.20	.42866	.43154	.43500	.43984	.44536	.45160	.45770	.46608	.47366	.48266	.49216	.50096	.51122	.52100	.52998	.53872	.54878	.55756	.56520	.57384

Table E.3 Power tables of $CM(Ref) - V$ against Beta ditribution

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 15$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.06672	.12122	.16930	.20408	.24050	.27218	.30424	.33254	.36138	.38740	.41014	.43336	.4536	.2	.49134	.51162	.52744	.54362	.55764
0.02	.07268	.12834	.17654	.21964	.25174	.28502	.31398	.34414	.37018	.39680	.42142	.44294	.46468	.48382	.50178	.51866	.53754	.55244	.56752	.58070
0.03	.13674	.18154	.22386	.26266	.29160	.32228	.34848	.37650	.40114	.42592	.44910	.46926	.48982	.50780	.52476	.54078	.55882	.57320	.58744	.59972
0.04	.18750	.22420	.26062	.29570	.32218	.35050	.37500	.40132	.42432	.44790	.47010	.48912	.50870	.52604	.54224	.55756	.57482	.58854	.60304	.61380
0.05	.23140	.26180	.29350	.32520	.34950	.37584	.39908	.42374	.44516	.46760	.48884	.50696	.52560	.54198	.55758	.57196	.58434	.60180	.61448	.62584
0.06	.27102	.29654	.32432	.35240	.37486	.39898	.42056	.44402	.46416	.48534	.50542	.52282	.54060	.55632	.57128	.58516	.60080	.61360	.62590	.63690
0.07	.30812	.32960	.35348	.37834	.39846	.42048	.44054	.46240	.48156	.50184	.52106	.53772	.55464	.56986	.58432	.59784	.61280	.62498	.63698	.64762
0.08	.33630	.35496	.37640	.39864	.41706	.43762	.45654	.47726	.49556	.51494	.53340	.54938	.56572	.58032	.59414	.60718	.62184	.63364	.64526	.65546
0.09	.36656	.38248	.40148	.42156	.43804	.45676	.47436	.49374	.51092	.52930	.54690	.56230	.57758	.59154	.60478	.61722	.63122	.64262	.65388	.66382
0.10	.39722	.41100	.42762	.44520	.45992	.47700	.49300	.51064	.52660	.54368	.56038	.57488	.58956	.60286	.61558	.62754	.64114	.65218	.66304	.67268
0.11	.42246	.43448	.44930	.46472	.47804	.49382	.50880	.52532	.54046	.55648	.57240	.58622	.60028	.61314	.62534	.63668	.64980	.66054	.67092	.68026
0.12	.44588	.45670	.46980	.48352	.49554	.50998	.52380	.53908	.55310	.56804	.58336	.59670	.61026	.62244	.63412	.64502	.65768	.66798	.67816	.68712
0.13	.46628	.47790	.48952	.50190	.51296	.52628	.53908	.55332	.56640	.58054	.59500	.60774	.62062	.63226	.64358	.65406	.66634	.67636	.68626	.69490
0.14	.48676	.49854	.50618	.51714	.52734	.53940	.55132	.56450	.57684	.59012	.60376	.61610	.62858	.63972	.65056	.66070	.67262	.68240	.69190	.70034
0.15	.50580	.51364	.52298	.53280	.54184	.55292	.56398	.57604	.58756	.59992	.61292	.62466	.63664	.64738	.65756	.66758	.67910	.68864	.69782	.70584
0.16	.52686	.53410	.54206	.55052	.55878	.56890	.57902	.59018	.60084	.61248	.62456	.63558	.64684	.65710	.66670	.67596	.68688	.69602	.70474	.71264
0.17	.54542	.55208	.55928	.56686	.57428	.58344	.59280	.60300	.61282	.62350	.63480	.64524	.65606	.66590	.67512	.68408	.69460	.70348	.71196	.71968
0.18	.56188	.56800	.57458	.58144	.58806	.59648	.60502	.61444	.62342	.63350	.64412	.65388	.66412	.67356	.68242	.69110	.70124	.70970	.71768	.72542
0.19	.57680	.58242	.58818	.59464	.60068	.60826	.61622	.62516	.63342	.64280	.65264	.66200	.67178	.68086	.68932	.69766	.70732	.71554	.72348	.73084
0.20	.59146	.59660	.60162	.60750	.61296	.61982	.62694	.63516	.64292	.65178	.66122	.67008	.67940	.68816	.69628	.70438	.71376	.72168	.72936	.73646

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 20$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10942	.18876	.25668	.30774	.35300	.39290	.42902	.45872	.49280	.51944	.54870	.57098	.59204	.61222	.63188	.64886	.66430	.67834	.69390
0.02	.11844	.20394	.27020	.32702	.37220	.41204	.44730	.47976	.50698	.53756	.56114	.58752	.60782	.62680	.64520	.66282	.67854	.69274	.70558	.71970
0.03	.20846	.27608	.33068	.37954	.41886	.45400	.48602	.51540	.54012	.56854	.59030	.61472	.63362	.65114	.66804	.68456	.69834	.71244	.72462	.73748
0.04	.27812	.33272	.37846	.42034	.45432	.48630	.51530	.54218	.56514	.59160	.61206	.63462	.65232	.66872	.68464	.70018	.71408	.72636	.73762	.75030
0.05	.33754	.38234	.42062	.45678	.48664	.51530	.54188	.56620	.58742	.61164	.63070	.65178	.66864	.68394	.69896	.71372	.72652	.73850	.74952	.76098
0.06	.38356	.42110	.45422	.48580	.51238	.53860	.56314	.58544	.60494	.62754	.64542	.66508	.68118	.69588	.71000	.72402	.73632	.74758	.75754	.76922
0.07	.42656	.45810	.48642	.51366	.53720	.56080	.58332	.60394	.62190	.64288	.65970	.67814	.69346	.70758	.72094	.73416	.74572	.75650	.76644	.77714
0.08	.46190	.48956	.51396	.53748	.55828	.57962	.60022	.61922	.63594	.65570	.67148	.68916	.70386	.71728	.73016	.74260	.75374	.76406	.77366	.78396
0.09	.49450	.51808	.53938	.56004	.57834	.59772	.61666	.63424	.64980	.66842	.68324	.69996	.71400	.72680	.73922	.75130	.76204	.77102	.78106	.79114
0.10	.52248	.54378	.56270	.58104	.59752	.61430	.63170	.64812	.66272	.67996	.69406	.70976	.72312	.73508	.74702	.75862	.76886	.77828	.78718	.79694
0.11	.54852	.56762	.58448	.60070	.61498	.63066	.64658	.66178	.67528	.69136	.70452	.71936	.73230	.74376	.75504	.76612	.77606	.78524	.79366	.80328
0.12	.57358	.59076	.60582	.62008	.63278	.64658	.66090	.67492	.68744	.70238	.71488	.72890	.74112	.75172	.76260	.77316	.78258	.79116	.79972	.80858
0.13	.59422	.61022	.62392	.63656	.64784	.66064	.67320	.68584	.69730	.71132	.72338	.73688	.74884	.75882	.76898	.77900	.78814	.79680	.80474	.81334
0.14	.61522	.62960	.64158	.65308	.66314	.67460	.68598	.69738	.70800	.72126	.73252	.74524	.75610	.76570	.77580	.78542	.79418	.80254	.81024	.81856
0.15	.63322	.64658	.65736	.66780	.67686	.68726	.69760	.70846	.71852	.73074	.74144	.75328	.76348	.77258	.78232	.79142	.79972	.80778	.81534	.82338
0.16	.65248	.66464	.67430	.68352	.69138	.70060	.71026	.72004	.72934	.74054	.75054	.76150	.77130	.77990	.78908	.79784	.80556	.81334	.82062	.82822
0.17	.66950	.68074	.68946	.69772	.70474	.71326	.72166	.73066	.73916	.74938	.75878	.76920	.77846	.78646	.79528	.80360	.81098	.81824	.82534	.83272
0.18	.68562	.69582	.70368	.71124	.71758	.72526	.73298	.74116	.74882	.75836	.76714	.77698	.78570	.79332	.80160	.80954	.81654	.82344	.83030	.83736
0.19	.70108	.71032	.71742	.72448	.73012	.73698	.74418	.75152	.75860	.76740	.77564	.78458	.79262	.79984	.80778	.81518	.82196	.82858	.83518	.84206
0.20	.71584	.72442	.73092	.73732	.74244	.74860	.75508	.76196	.76836	.77628	.78400	.79220	.79994	.80678	.81420	.82130	.82768	.83404	.84012	.84670

Table B.4 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Beta for n = 25

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.14632	.25188	.33764	.40738	.46434	.50600	.54228	.57560	.60456	.63182	.65742	.67930	.69972	.71846	.73522	.75018	.76674	.77970	.79178
0.02	.17436	.27946	.35900	.42870	.48700	.53398	.56894	.59994	.62840	.65316	.67658	.69886	.71784	.73548	.75190	.76636	.77942	.79390	.80514	.81568
0.03	.28540	.36566	.42978	.48852	.53850	.57862	.60950	.63700	.66196	.68386	.70500	.72496	.74246	.75820	.77284	.78590	.79786	.81130	.82164	.83156
0.04	.37474	.43760	.48882	.53728	.58058	.61504	.64272	.66728	.68982	.71004	.72894	.74704	.76306	.77778	.79094	.80304	.81396	.82604	.83574	.84484
0.05	.44160	.49240	.53460	.57526	.61256	.64274	.66754	.68960	.70986	.72906	.74650	.76302	.77768	.79106	.80346	.81470	.82484	.83622	.84542	.85390
0.06	.49382	.53636	.57140	.60566	.63846	.66510	.68756	.70748	.72568	.74342	.75970	.77514	.78892	.80148	.81304	.82390	.83356	.84448	.85300	.86110
0.07	.53602	.57206	.60226	.63184	.66088	.68498	.70554	.72386	.74050	.75696	.77176	.78584	.79890	.81070	.82146	.83146	.84064	.85086	.85902	.86678
0.08	.57602	.60680	.63252	.65762	.68330	.70478	.72294	.73936	.75452	.76956	.78322	.79648	.80856	.81956	.82958	.83906	.84772	.85756	.86536	.87278
0.09	.60964	.63626	.65874	.68026	.70266	.72144	.73758	.75228	.76644	.78032	.79294	.80554	.81684	.82724	.83666	.84578	.85412	.86384	.87110	.87816
0.10	.64070	.66362	.68282	.70148	.72108	.73806	.75250	.76552	.77816	.79098	.80284	.81432	.82482	.83456	.84350	.85204	.86002	.86920	.87632	.88306
0.11	.66920	.68932	.70558	.72178	.73894	.75382	.76682	.77844	.78992	.80148	.81244	.82300	.83246	.84154	.85008	.85810	.86556	.87420	.88100	.88742
0.12	.69218	.71024	.72434	.73876	.75382	.76704	.77888	.78946	.79994	.81036	.82034	.83034	.83934	.84778	.85580	.86348	.87054	.87862	.88494	.89108
0.13	.71414	.72982	.74250	.75546	.76904	.78042	.79086	.80058	.81014	.81950	.82878	.83786	.84628	.85410	.86160	.86882	.87558	.88312	.88914	.89492
0.14	.73320	.74748	.75882	.77032	.78218	.79250	.80180	.81048	.81932	.82810	.83676	.84520	.85322	.86050	.86758	.87432	.88090	.88768	.89356	.89910
0.15	.75044	.76368	.77384	.78384	.79446	.80380	.81214	.81994	.82792	.83606	.84398	.85174	.85894	.86570	.87250	.87884	.88514	.89164	.89734	.90276
0.16	.76758	.77964	.78890	.79792	.80746	.81592	.82344	.83040	.83744	.84466	.85196	.85902	.86546	.87162	.87786	.88362	.88956	.89552	.90090	.90604
0.17	.78274	.79356	.80160	.80962	.81838	.82624	.83294	.83954	.84612	.85314	.85954	.86632	.87236	.87812	.88380	.88916	.89474	.90024	.90530	.90996
0.18	.79510	.80514	.81236	.81946	.82722	.83426	.84034	.84638	.85224	.85882	.86508	.87112	.87698	.88246	.88776	.89286	.89820	.90350	.90840	.91264
0.19	.80754	.81662	.82308	.82932	.83622	.84234	.84780	.85352	.85904	.86516	.87086	.87634	.88192	.88702	.89194	.89666	.90170	.90678	.91130	.91532
0.20	.81908	.82748	.83340	.83900	.84520	.85092	.85578	.86102	.86618	.87204	.87718	.88220	.88714	.89176	.89638	.90092	.90560	.91034	.91460	.91834

Powers of $CM(Ref) - V$ Sequential test against Beta for n = 30

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.20992	.33294	.41612	.48534	.53838	.58808	.62960	.66606	.69578	.71792	.73956	.76200	.78104	.79894	.81378	.82694	.83802	.84910	.86082
0.02	.23958	.37796	.46538	.52804	.58140	.62312	.66178	.69466	.72388	.74774	.76634	.78412	.80228	.81814	.83228	.84568	.85654	.86592	.87612	.88452
0.03	.36860	.47166	.53806	.58810	.63222	.66762	.70094	.72960	.75434	.77520	.79152	.80730	.82266	.83700	.84980	.86160	.87136	.87984	.88798	.89632
0.04	.46998	.54884	.60014	.63880	.67450	.70400	.73190	.75684	.77842	.79652	.81076	.82516	.83902	.85206	.86332	.87392	.88268	.89042	.89786	.90512
0.05	.54056	.60364	.64574	.67714	.70692	.73152	.75534	.77706	.79630	.81248	.82526	.83850	.85096	.86304	.87326	.88304	.89130	.89844	.90568	.91304
0.06	.59282	.64550	.68032	.70652	.73248	.75384	.77406	.79330	.81034	.82480	.83680	.84888	.86040	.87168	.88104	.89002	.89788	.90478	.91138	.91752
0.07	.63790	.68174	.71050	.73280	.75512	.77346	.79104	.80802	.82358	.83638	.84708	.85816	.86878	.87932	.88790	.89626	.90336	.91006	.91616	.92174
0.08	.67486	.71190	.73680	.75554	.77408	.79014	.80542	.82074	.83472	.84662	.85622	.86628	.87608	.88586	.89366	.90158	.90836	.91460	.92036	.92550
0.09	.70664	.73834	.75938	.77456	.79100	.80470	.81852	.83236	.84534	.85616	.86488	.87382	.88300	.89188	.89912	.90656	.91308	.91874	.92432	.92912
0.10	.73342	.76112	.77898	.79220	.80634	.81788	.83000	.84272	.85448	.86456	.87246	.88052	.88912	.89740	.90422	.91128	.91748	.92272	.92800	.93252
0.11	.75754	.78256	.79818	.80930	.82082	.83082	.84162	.85310	.86384	.87302	.88008	.88756	.89536	.90312	.90952	.91602	.92174	.92666	.93166	.93606
0.12	.77922	.80144	.81484	.82462	.83420	.84270	.85222	.86260	.87220	.88046	.88676	.89362	.90054	.90756	.91348	.91968	.92516	.92982	.93432	.93852
0.13	.79844	.81780	.82944	.83780	.84620	.85368	.86180	.87096	.87944	.88722	.89304	.89912	.90554	.91204	.91764	.92328	.92836	.93288	.93716	.94110
0.14	.81500	.83210	.84262	.84990	.85750	.86390	.87116	.87928	.88728	.89424	.89954	.90484	.91060	.91660	.92172	.92682	.93170	.93584	.94004	.94382
0.15	.82762	.84366	.85300	.85942	.86604	.87228	.87874	.88592	.89330	.89958	.90426	.90938	.91462	.92024	.92500	.93004	.93444	.93842	.94228	.94590
0.16	.84230	.85668	.86510	.87076	.87648	.88190	.88786	.89394	.90058	.90620	.91060	.91538	.91998	.92526	.92982	.93432	.93844	.94216	.94584	.94876
0.17	.85390	.86694	.87442	.87948	.88460	.88930	.89440	.90024	.90618	.91132	.91520	.91948	.92372	.92846	.93282	.93704	.94082	.94432	.94782	.95084
0.18	.86596	.87764	.88436	.88882	.89334	.89742	.90198	.90716	.91236	.91698	.92030	.92420	.92808	.93250	.93644	.94038	.94384	.94702	.94996	.95276
0.19	.87626	.88708	.89314	.89702	.90108	.90470	.90860	.91344	.91814	.92302	.92494	.92846	.93194	.93572	.93936	.94300	.94628	.94940	.95206	.95460
0.20	.88586	.89558	.90098	.90428	.90752	.91080	.91444	.91866	.92280	.92630	.92890	.93222	.93530	.93870	.94196	.94540	.94842	.95134	.95380	.95616

Table B.4 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 35$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.25016	.39434	.48908	.55972	.61516	.66012	.69610	.73106	.75932	.78632	.80432	.82388	.84010	.85648	.86892	.88112	.89128	.90070	.90902
0.02	.29894	.45390	.54894	.61246	.66300	.70226	.73500	.76168	.78946	.81166	.83196	.84638	.86170	.87436	.88730	.89706	.90704	.91618	.92346	.92896
0.03	.46100	.56724	.63564	.68200	.72054	.75126	.77706	.79794	.82096	.83956	.85688	.86880	.88158	.89244	.90336	.91160	.92012	.92674	.93288	.93856
0.04	.56380	.64352	.69246	.72736	.75810	.78314	.80450	.82184	.84156	.85754	.87248	.88294	.89430	.90400	.91334	.92080	.92822	.93422	.93970	.94482
0.05	.63998	.70104	.73838	.76544	.79072	.81038	.82836	.84232	.85912	.87288	.88582	.89506	.90504	.91372	.92210	.92852	.93548	.94076	.94528	.95010
0.06	.69490	.74298	.77340	.79426	.81402	.82982	.84496	.85630	.87120	.88342	.89490	.90322	.91198	.91992	.92714	.93318	.93864	.94442	.94880	.95306
0.07	.73434	.77360	.79832	.81548	.83256	.84596	.85924	.86920	.88246	.89342	.90368	.91132	.91920	.92656	.93320	.93850	.94448	.94896	.95252	.95630
0.08	.77064	.80262	.82320	.83684	.85060	.86158	.87270	.88166	.89298	.90256	.91114	.91808	.92510	.93196	.93818	.94310	.94846	.95248	.95574	.95920
0.09	.79588	.82408	.84136	.85300	.86488	.87428	.88390	.89168	.90138	.91018	.91772	.92410	.93044	.93682	.94234	.94660	.95154	.95532	.95852	.96182
0.10	.81674	.84158	.85646	.86618	.87610	.88410	.89246	.89946	.90816	.91630	.92348	.92920	.93510	.94084	.94576	.94968	.95414	.95762	.96072	.96380
0.11	.83608	.85796	.87008	.87872	.88740	.89442	.90176	.90800	.91592	.92332	.92956	.93484	.93986	.94472	.94928	.95284	.95702	.96004	.96272	.96552
0.12	.85446	.87322	.88352	.89064	.89766	.90338	.91014	.91540	.92232	.92856	.93420	.93890	.94320	.94758	.95182	.95516	.95904	.96182	.96430	.96690
0.13	.87004	.88636	.89598	.90232	.90828	.91300	.91896	.92358	.92922	.93462	.93922	.94344	.94744	.95136	.95518	.95834	.96200	.96466	.96686	.96926
0.14	.88266	.89748	.90622	.91148	.91662	.92092	.92626	.93028	.93542	.93996	.94386	.94774	.95122	.95490	.95840	.96100	.96436	.96692	.96900	.97128
0.15	.89196	.90562	.91366	.91834	.92260	.92640	.93122	.93486	.93948	.94360	.94712	.95072	.95400	.95744	.96066	.96314	.96630	.96884	.97056	.97284
0.16	.90236	.91436	.92134	.92562	.92950	.93286	.93676	.93992	.94406	.94788	.95094	.95426	.95730	.96020	.96318	.96530	.96820	.97042	.97210	.97400
0.17	.91280	.92312	.92936	.93310	.93624	.93904	.94222	.94490	.94868	.95194	.95466	.95748	.96028	.96284	.96570	.96748	.97006	.97198	.97360	.97548
0.18	.91990	.92922	.93500	.93848	.94130	.94372	.94668	.94900	.95210	.95500	.95754	.96002	.96258	.96498	.96772	.96934	.97170	.97352	.97504	.97686
0.19	.92602	.93448	.93980	.94288	.94546	.94762	.95014	.95240	.95514	.95774	.96010	.96244	.96488	.96694	.96946	.97102	.97324	.97484	.97618	.97790
0.20	.93244	.94008	.94500	.94750	.94966	.95144	.95358	.95572	.95838	.96054	.96262	.96458	.96686	.96870	.97110	.97260	.97470	.97624	.97750	.97902

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 40$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.30968	.47452	.57692	.64464	.70114	.74404	.77672	.80604	.83062	.85090	.86796	.88292	.89468	.90610	.91518	.92292	.93016	.93686	.94132
0.02	.35772	.53226	.63044	.69732	.74286	.78022	.80942	.83286	.85522	.87348	.88832	.90090	.91278	.92168	.92940	.93652	.94246	.94812	.95288	.95636
0.03	.53754	.65330	.71650	.76092	.79346	.82092	.84396	.86226	.88000	.89468	.90726	.91748	.92718	.93482	.94116	.94694	.95314	.95838	.96032	.96310
0.04	.64186	.72632	.77326	.80696	.83102	.85158	.86964	.88374	.89814	.91046	.92114	.92976	.93734	.94394	.94958	.95446	.95898	.96296	.96618	.96886
0.05	.70768	.77534	.80998	.83584	.85462	.87174	.88582	.89770	.90970	.91988	.92968	.93728	.94366	.94950	.95426	.95860	.96256	.96630	.96924	.97162
0.06	.75572	.80994	.83622	.85566	.87100	.88530	.89718	.90670	.91690	.92604	.93498	.94232	.94818	.95364	.95784	.96182	.96570	.96904	.97158	.97352
0.07	.79574	.83922	.85958	.87512	.88704	.89894	.90852	.91668	.92552	.93364	.94146	.94786	.95284	.95742	.96128	.96476	.96832	.97152	.97394	.97584
0.08	.82370	.86042	.87746	.89018	.90068	.91088	.91908	.92870	.93310	.93992	.94696	.95288	.95724	.96150	.96470	.96804	.97104	.97400	.97618	.97798
0.09	.84788	.87932	.89316	.90412	.91264	.92078	.92778	.93372	.94024	.94622	.95252	.95744	.96134	.96506	.96778	.97076	.97322	.97582	.97796	.97950
0.10	.86966	.89580	.90710	.91614	.92316	.93040	.93606	.94100	.94634	.95146	.95700	.96142	.96484	.96824	.97066	.97336	.97572	.97814	.98004	.98180
0.11	.88954	.91174	.92100	.92806	.93368	.93918	.94398	.94822	.95268	.95690	.96140	.96534	.96822	.97148	.97356	.97594	.97804	.98012	.98204	.98332
0.12	.90544	.92394	.93208	.93730	.94192	.94666	.95082	.95420	.95800	.96164	.96522	.96872	.97136	.97428	.97582	.97794	.97990	.98178	.98354	.98484
0.13	.91930	.93492	.94132	.94554	.94920	.95314	.95658	.95936	.96250	.96566	.96874	.97196	.97394	.97662	.97804	.97976	.98166	.98334	.98484	.98552
0.14	.92740	.94146	.94742	.95092	.95386	.95750	.96042	.96270	.96536	.96788	.97048	.97348	.97520	.97782	.97912	.98068	.98254	.98414	.98532	.98604
0.15	.93680	.94912	.95438	.95716	.95948	.96214	.96480	.96674	.96888	.97100	.97318	.97580	.97744	.97946	.98068	.98202	.98332	.98482	.98584	.98666
0.16	.94560	.95566	.96038	.96278	.96494	.96710	.96912	.97070	.97266	.97422	.97620	.97860	.98006	.98156	.98266	.98336	.98516	.98644	.98728	.98800
0.17	.95286	.96138	.96524	.96738	.96902	.97102	.97262	.97384	.97550	.97660	.97828	.98052	.98188	.98344	.98420	.98526	.98640	.98760	.98834	.98902
0.18	.95804	.96578	.96904	.97100	.97242	.97436	.97566	.97688	.97832	.97922	.98062	.98218	.98342	.98492	.98562	.98640	.98744	.98864	.98928	.98986
0.19	.96184	.96870	.97150	.97332	.97446	.97628	.97754	.97864	.98002	.98078	.98184	.98324	.98438	.98566	.98630	.98696	.98780	.98906	.98970	.99032
0.20	.96406	.97064	.97318	.97480	.97586	.97750	.97870	.97966	.98098	.98172	.98276	.98414	.98522	.98650	.98708	.98764	.98858	.98970	.99034	.99078

Table B.4 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 45$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.34354	.50826	.61590	.69292	.74644	.79378	.82566	.84992	.86950	.88820	.90098	.91174	.92234	.93112	.93800	.94342	.94860	.95466	.95862
0.02	.44132	.60926	.69558	.75590	.80284	.83452	.86382	.88314	.89846	.91084	.92354	.93172	.93978	.94684	.95266	.95732	.96130	.96430	.96872	.97180
0.03	.61474	.72284	.77934	.81704	.85026	.87310	.89450	.90874	.91878	.92906	.93846	.94456	.95102	.95706	.96160	.96536	.96888	.97134	.97484	.97736
0.04	.70840	.78632	.82726	.85534	.87962	.89700	.91274	.92418	.93210	.94068	.94768	.95284	.95788	.96336	.96724	.97046	.97354	.97576	.97898	.98106
0.05	.78020	.83610	.86332	.88286	.90118	.91342	.92596	.93566	.94192	.94918	.95502	.95946	.96358	.96868	.97208	.97510	.97764	.97892	.98194	.98366
0.06	.82540	.86754	.88772	.90338	.91758	.92698	.93694	.94454	.94978	.95558	.96070	.96454	.96770	.97208	.97502	.97768	.98002	.98110	.98374	.98544
0.07	.86368	.89524	.90982	.92142	.93238	.93872	.94678	.95272	.95728	.96226	.96658	.96960	.97222	.97574	.97836	.98064	.98254	.98340	.98580	.98718
0.08	.88664	.91190	.92388	.93338	.94190	.94698	.95418	.95910	.96312	.96728	.97070	.97316	.97554	.97864	.98068	.98258	.98442	.98530	.98730	.98834
0.09	.90630	.92586	.93572	.94362	.95062	.95442	.95994	.96416	.96766	.97102	.97382	.97598	.97786	.98070	.98264	.98426	.98576	.98650	.98832	.98934
0.10	.92274	.93878	.94614	.95224	.95738	.96058	.96480	.96864	.97164	.97418	.97646	.97824	.97992	.98262	.98454	.98602	.98726	.98776	.98940	.99042
0.11	.93406	.94820	.95422	.95928	.96388	.96632	.97006	.97264	.97500	.97712	.97928	.98094	.98212	.98458	.98614	.98760	.98856	.98906	.99052	.99150
0.12	.94454	.95686	.96140	.96540	.96932	.97118	.97412	.97644	.97874	.98080	.98214	.98360	.98452	.98660	.98806	.98944	.99004	.99050	.99150	.99234
0.13	.95356	.96436	.96786	.97116	.97406	.97546	.97744	.97920	.98104	.98266	.98364	.98482	.98558	.98748	.98872	.99000	.99052	.99098	.99186	.99272
0.14	.95816	.96804	.97094	.97406	.97646	.97766	.97930	.98102	.98246	.98390	.98472	.98580	.98650	.98828	.98948	.99058	.99110	.99142	.99234	.99310
0.15	.96222	.97138	.97402	.97672	.97874	.97994	.98154	.98298	.98394	.98510	.98592	.98700	.98764	.98942	.99062	.99156	.99208	.99240	.99294	.99350
0.16	.96700	.97556	.97772	.98006	.98170	.98278	.98426	.98554	.98614	.98718	.98786	.98888	.98948	.99092	.99212	.99258	.99294	.99320	.99388	.99400
0.17	.97148	.97902	.98108	.98294	.98422	.98518	.98638	.98720	.98764	.98848	.98910	.99004	.99056	.99174	.99288	.99308	.99340	.99360	.99406	.99432
0.18	.97618	.98268	.98414	.98510	.98620	.98714	.98824	.98886	.98912	.98988	.99042	.99130	.99180	.99268	.99352	.99372	.99404	.99424	.99470	.99496
0.19	.97956	.98508	.98610	.98700	.98800	.98890	.98962	.99018	.99030	.99094	.99148	.99228	.99244	.99328	.99390	.99410	.99442	.99462	.99506	.99526
0.20	.98088	.98626	.98714	.98804	.98894	.98966	.99022	.99064	.99076	.99140	.99188	.99256	.99262	.99344	.99406	.99426	.99454	.99472	.99516	.99534

Powers of $CM(Ref) - V$ Sequential test against Beta for $n = 50$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.36580	.55208	.66904	.74278	.79136	.82750	.85746	.88244	.89740	.91368	.92732	.93508	.94022	.94730	.95454	.95904	.96364	.96744	.97232
0.02	.48224	.65022	.74348	.80154	.84428	.87226	.89454	.91204	.92668	.93568	.94614	.95540	.96018	.96388	.96824	.97324	.97614	.97874	.98142	.98412
0.03	.65666	.76156	.82094	.85698	.88330	.90294	.91956	.93372	.94518	.95166	.95870	.96458	.96882	.97162	.97418	.97856	.98094	.98410	.98542	.98774
0.04	.75276	.82728	.86826	.89052	.90780	.92088	.93390	.94538	.95516	.96108	.96734	.97184	.97560	.97790	.98292	.98486	.98742	.98844	.99020	
0.05	.82408	.87648	.90388	.91890	.93130	.94056	.94964	.95816	.96470	.96880	.97410	.97770	.98032	.98240	.98384	.98618	.98788	.99014	.99116	.99230
0.06	.86332	.90082	.92106	.93278	.94256	.95004	.95752	.96392	.96956	.97336	.97764	.98062	.98294	.98478	.98604	.98786	.98844	.99114	.99200	.99278
0.07	.89338	.92370	.93914	.94770	.95450	.96024	.96566	.97070	.97450	.97730	.98102	.98304	.98486	.98656	.98770	.98876	.99028	.99196	.99264	.99330
0.08	.91154	.93662	.94920	.95590	.96152	.96538	.96966	.97352	.97674	.97928	.98286	.98478	.98622	.98740	.98842	.98930	.99082	.99250	.99318	.99382
0.09	.92844	.94980	.95912	.96480	.96948	.97234	.97604	.97832	.98036	.98232	.98552	.98744	.98820	.98910	.99012	.99076	.99214	.99332	.99454	.99514
0.10	.93938	.95724	.96482	.96992	.97368	.97590	.97928	.98120	.98286	.98424	.98710	.98902	.98972	.99046	.99134	.99184	.99304	.99434	.99502	.99544
0.11	.95312	.96644	.97204	.97580	.97912	.98078	.98320	.98494	.98652	.98744	.98972	.99152	.99198	.99272	.99322	.99368	.99454	.99534	.99598	.99652
0.12	.95776	.97010	.97618	.97834	.98080	.98210	.98446	.98590	.98724	.98792	.99008	.99184	.99230	.99300	.99350	.99396	.99482	.99554	.99618	.99654
0.13	.96106	.97274	.97744	.98026	.98256	.98378	.98584	.98706	.98828	.98884	.99046	.99224	.99284	.99334	.99384	.99430	.99504	.99564	.99628	.99646
0.14	.96522	.97546	.97978	.98252	.98448	.98552	.98710	.98826	.98918	.98972	.99122	.99300	.99330	.99396	.99416	.99454	.99534	.99584	.99644	.99686
0.15	.96910	.97812	.98176	.98426	.98618	.98706	.98832	.98936	.99020	.99056	.99208	.99358	.99384	.99450	.99456	.99482	.99564	.99604	.99644	.99704
0.16	.97270	.98078	.98410	.98610	.98746	.98814	.98926	.99034	.99122	.99152	.99264	.99414	.99440	.99494	.99500	.99534	.99602	.99634	.99684	.99734
0.17	.97488	.98280	.98584	.98774	.98910	.98960	.99064	.99170	.99228	.99254	.99334	.99488	.99514	.99568	.99572	.99610	.99632	.99664	.99704	.99744
0.18	.97902	.98590	.98854	.98998	.99094	.99142	.99240	.99340	.99392	.99408	.99488	.99588	.99614	.99642	.99648	.99670	.99686	.99702	.99720	.99760
0.19	.98208	.98770	.99006	.99134	.99200	.99236	.99292	.99380	.99420	.99436	.99502	.99602	.99622	.99654	.99662	.99684	.99700	.99706	.99724	.99762
0.20	.98346	.98906	.99110	.99228	.99288	.99310	.99366	.99454	.99494	.99510	.99534	.99634	.99660	.99664	.99690	.99712	.99724	.99734	.99748	.99782

Table B.4 (Continued)

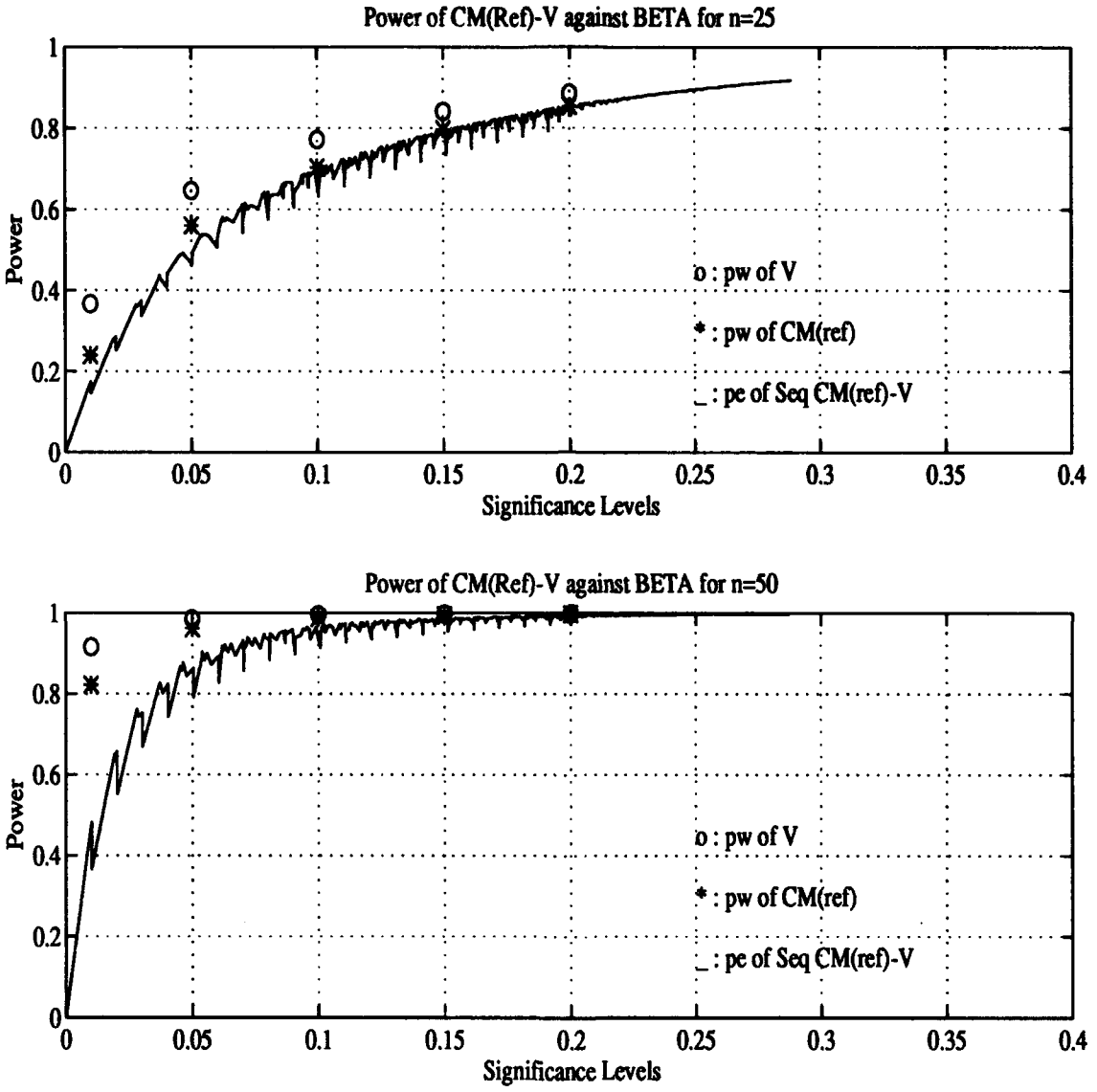

Figure E.3 Power comparisons of $CM(Ref) - V$ against Beta

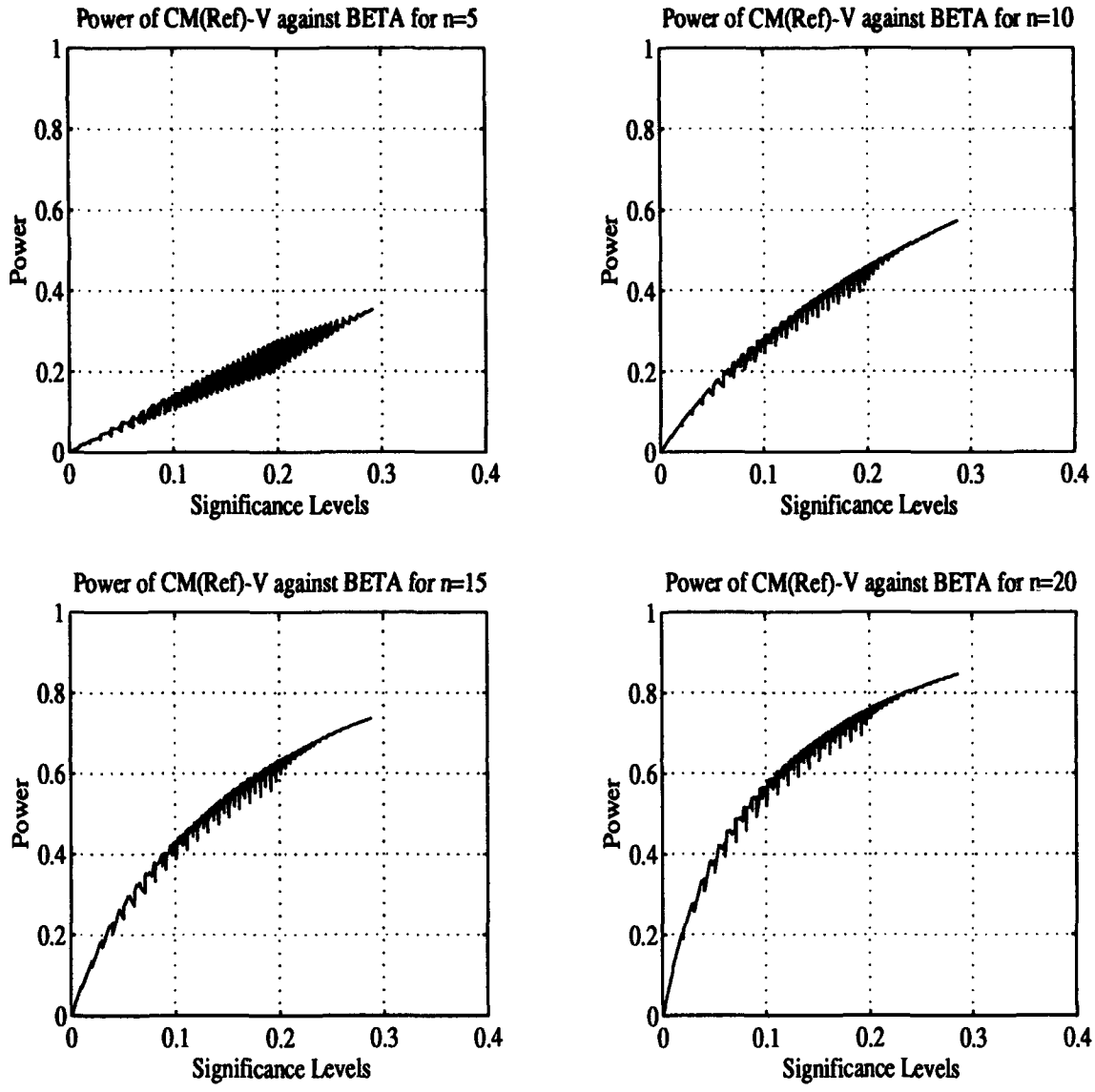

Figure E.3 (Continued)

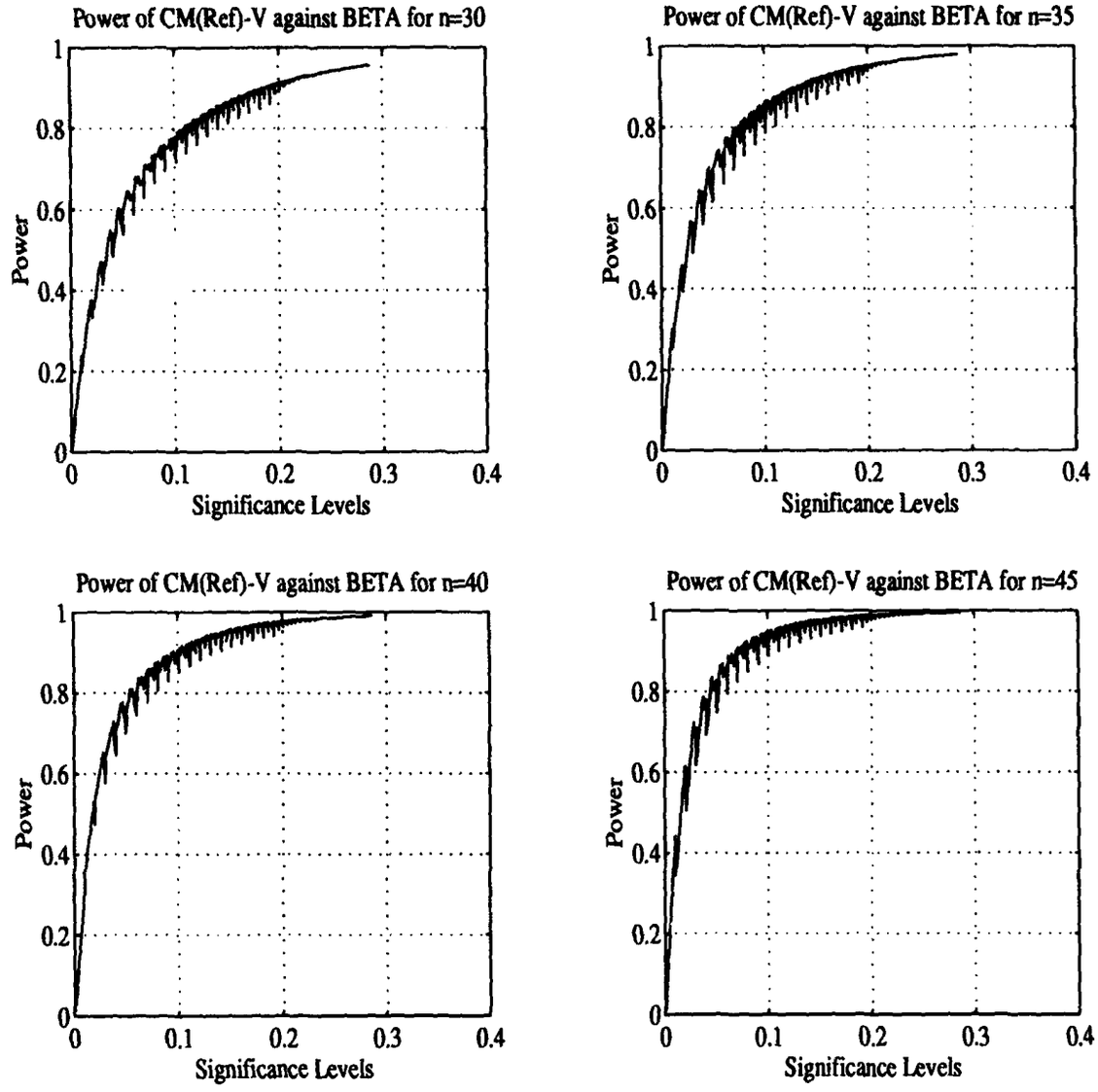

Figure E.3 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Gamma for $n = 5$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01130	.02006	.02928	.03860	.04946	.05948	.07020	.08112	.09228	.10346	.11566	.12586	.13650	.14634	.15584	.16588	.17540	.18604	.19616
0.02	.01622	.02700	.03506	.04358	.05210	.06210	.07110	.08036	.08970	.09994	.11094	.12304	.13308	.14352	.15324	.16246	.17236	.18182	.19232	.20236
0.03	.03054	.04066	.04824	.05628	.06444	.07388	.08260	.09112	.09984	.10922	.11948	.13136	.14122	.15148	.16104	.17000	.17980	.18908	.19944	.20936
0.04	.04380	.05358	.06076	.06854	.07638	.08532	.09368	.10188	.11014	.11880	.12848	.13994	.14944	.15948	.16888	.17774	.18730	.19632	.20646	.21616
0.05	.05720	.06656	.07326	.08076	.08820	.09678	.10474	.11254	.12032	.12836	.13760	.14856	.15786	.16764	.17686	.18556	.19502	.20388	.21390	.22340
0.06	.07278	.08176	.08822	.09524	.10224	.11042	.11784	.12520	.13240	.13984	.14852	.15878	.16790	.17746	.18634	.19494	.20420	.21284	.22264	.23204
0.07	.08676	.09534	.10152	.10828	.11496	.12274	.12962	.13670	.14350	.15054	.15870	.16840	.17720	.18644	.19514	.20354	.21258	.22110	.23078	.23998
0.08	.10062	.10894	.11482	.12128	.12768	.13514	.14162	.14838	.15474	.16130	.16892	.17800	.18640	.19542	.20388	.21210	.22088	.22922	.23870	.24778
0.09	.11432	.12246	.12814	.13434	.14064	.14786	.15390	.16032	.16624	.17248	.17972	.18826	.19628	.20512	.21336	.22132	.22988	.23806	.24736	.25632
0.10	.12836	.13636	.14178	.14760	.15362	.16040	.16636	.17240	.17786	.18374	.19050	.19856	.20608	.21462	.22256	.23030	.23874	.24680	.25584	.26456
0.11	.14362	.15130	.15632	.16194	.16770	.17416	.17976	.18552	.19064	.19622	.20248	.21010	.21718	.22540	.23294	.24050	.24884	.25666	.26554	.27408
0.12	.15818	.16560	.17032	.17564	.18108	.18724	.19260	.19818	.20302	.20808	.21394	.22100	.22772	.23554	.24266	.25000	.25806	.26576	.27434	.28280
0.13	.17210	.17930	.18390	.18900	.19424	.20018	.20520	.21056	.21516	.21990	.22534	.23182	.23798	.24532	.25214	.25934	.26718	.27462	.28302	.29132
0.14	.18568	.19264	.19704	.20190	.20696	.21274	.21750	.22258	.22694	.23138	.23652	.24266	.24846	.25544	.26180	.26862	.27620	.28344	.29184	.29976
0.15	.19850	.20528	.20944	.21416	.21900	.22452	.22914	.23406	.23818	.24238	.24736	.25308	.25842	.26504	.27100	.27752	.28494	.29202	.30012	.30800
0.16	.21248	.21894	.22298	.22750	.23218	.23738	.24186	.24666	.25054	.25440	.25904	.26430	.26920	.27542	.28104	.28720	.29440	.30116	.30918	.31674
0.17	.22582	.23202	.23592	.24030	.24480	.24974	.25410	.25876	.26238	.26604	.27042	.27526	.27994	.28556	.29076	.29674	.30350	.31008	.31782	.32534
0.18	.23864	.24464	.24832	.25246	.25676	.26158	.26580	.27012	.27360	.27706	.28120	.28572	.29018	.29544	.30032	.30584	.31236	.31864	.32616	.33350
0.19	.25044	.25616	.25970	.26376	.26782	.27244	.27652	.28080	.28418	.28748	.29142	.29568	.29982	.30476	.30938	.31462	.32072	.32678	.33418	.34136
0.20	.26380	.26928	.27258	.27646	.28038	.28486	.28880	.29280	.29594	.29914	.30288	.30686	.31072	.31532	.31960	.32442	.33006	.33582	.34304	.34994

Powers of $CM(Ref) - V$ Sequential test against Gamma for $n = 10$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02276	.04544	.06446	.08160	.09964	.11530	.13284	.14800	.16480	.18166	.19682	.21180	.22622	.24126	.25234	.26664	.27962	.29150	.30462
0.02	.03634	.05654	.07724	.09506	.11116	.12806	.14256	.15874	.17304	.18904	.20520	.21960	.23392	.24764	.26206	.27264	.28616	.29876	.31006	.32266
0.03	.06848	.08642	.10520	.12152	.13666	.15268	.16644	.18190	.19556	.21082	.22642	.24012	.25380	.26698	.28048	.29066	.30364	.31576	.32668	.33870
0.04	.09768	.11334	.13078	.14592	.16012	.17520	.18832	.20300	.21582	.23028	.24518	.25822	.27138	.28402	.29710	.30694	.31956	.33122	.34168	.35310
0.05	.12642	.13984	.15522	.16936	.18264	.19676	.20918	.22300	.23508	.24892	.26298	.27554	.28826	.30052	.31298	.32240	.33462	.34596	.35582	.36690
0.06	.15322	.16448	.17830	.19148	.20372	.21702	.22856	.24152	.25306	.26626	.27972	.29174	.30392	.31590	.32806	.33712	.34886	.35986	.36958	.38024
0.07	.18004	.18932	.20126	.21322	.22470	.23706	.24782	.25994	.27074	.28318	.29598	.30738	.31916	.33078	.34252	.35138	.36270	.37336	.38276	.39310
0.08	.20332	.21112	.22170	.23266	.24338	.25490	.26506	.27640	.28656	.29852	.31082	.32186	.33308	.34444	.35566	.36422	.37522	.38558	.39468	.40470
0.09	.22534	.23236	.24196	.25190	.26162	.27244	.28206	.29270	.30218	.31358	.32630	.33800	.34968	.36178	.37344	.38240	.39340	.40378	.41298	.42310
0.10	.24474	.25078	.25930	.26838	.27740	.28770	.29676	.30686	.31582	.32682	.33802	.34842	.35874	.36928	.37966	.38778	.39804	.40766	.41616	.42566
0.11	.26498	.26998	.27756	.28590	.29406	.30362	.31214	.32170	.33034	.34082	.35146	.36150	.37142	.38152	.39160	.39946	.40938	.41872	.42688	.43602
0.12	.28376	.28810	.29474	.30248	.31006	.31882	.32682	.33582	.34412	.35410	.36436	.37390	.38352	.39326	.40312	.41076	.42038	.42940	.43746	.44638
0.13	.30166	.30536	.31140	.31826	.32504	.33302	.34058	.34920	.35708	.36662	.37640	.38564	.39490	.40406	.41356	.42104	.43040	.43920	.44704	.45574
0.14	.32004	.32326	.32842	.33460	.34072	.34800	.35484	.36290	.37038	.37956	.38892	.39778	.40674	.41556	.42464	.43178	.44086	.44940	.45702	.46546
0.15	.33764	.34062	.34526	.35076	.35622	.36278	.36900	.37670	.38350	.39222	.40132	.40972	.41834	.42678	.43538	.44240	.45120	.45964	.46700	.47532
0.16	.35262	.35534	.35948	.36440	.36958	.37564	.38134	.38862	.39514	.40342	.41214	.42028	.42872	.43686	.44516	.45176	.46034	.46846	.47586	.48370
0.17	.36863	.37114	.37458	.37898	.38372	.38930	.39442	.40120	.40732	.41532	.42362	.43136	.43940	.44720	.45528	.46170	.46996	.47778	.48480	.49266
0.18	.38524	.38754	.39056	.39446	.39882	.40402	.40884	.41522	.42098	.42850	.43626	.44352	.45114	.45870	.46650	.47260	.48058	.48806	.49494	.50252
0.19	.39916	.40128	.40404	.40764	.41174	.41650	.42108	.42704	.43240	.43938	.44670	.45354	.46080	.46808	.47560	.48148	.48908	.49630	.50302	.51032
0.20	.41422	.41620	.41862	.42192	.42570	.43006	.43424	.43984	.44492	.45140	.45844	.46500	.47192	.47888	.48608	.49162	.49898	.50594	.51244	.51950

Table E.4 Power tables of $CM(Ref) - V$ against Gamma ditribution

Powers of $CM(Ref) - V$ Sequential test against Gamma for n = 15

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04160	.07702	.10842	.13326	.15990	.18086	.20248	.22284	.24336	.26472	.28262	.29970	.31656	.33178	.34734	.36402	.37742	.39194	.40566
0.02	.06756	.10224	.13290	.16104	.18356	.20764	.22692	.24674	.26550	.28444	.30452	.32112	.33710	.35272	.36672	.38110	.39682	.40944	.42282	.43542
0.03	.12582	.15432	.18074	.20556	.22606	.24804	.26586	.28402	.30132	.31876	.33762	.35312	.36816	.38300	.39624	.40978	.42462	.43656	.44924	.46116
0.04	.17552	.19996	.22302	.24552	.26416	.28424	.30048	.31728	.33294	.34924	.36684	.38130	.39546	.40958	.42208	.43476	.44898	.46036	.47232	.48376
0.05	.21812	.23886	.25894	.27898	.29586	.31422	.32916	.34466	.35916	.37450	.39112	.40478	.41826	.43164	.44344	.45560	.46898	.47842	.49076	.50184
0.06	.25552	.27312	.29060	.30874	.32428	.34076	.35444	.36886	.38248	.39690	.41268	.42558	.43834	.45110	.46230	.47394	.48670	.49670	.50746	.51818
0.07	.28812	.30336	.31854	.33468	.34876	.36382	.37634	.38984	.40380	.41646	.43138	.44362	.45572	.46792	.47856	.48970	.50184	.51150	.52184	.53204
0.08	.31562	.32932	.34294	.35788	.37080	.38464	.39634	.40898	.42108	.43412	.44814	.45978	.47140	.48308	.49328	.50412	.51564	.52502	.53502	.54488
0.09	.34358	.35534	.36736	.38070	.39238	.40504	.41590	.42774	.43892	.45128	.46454	.47566	.48678	.49790	.50772	.51800	.52906	.53808	.54778	.55728
0.10	.37162	.38170	.39218	.40362	.41402	.42546	.43554	.44666	.45718	.46884	.48134	.49190	.50244	.51320	.52276	.53258	.54324	.55196	.56132	.57052
0.11	.39714	.40608	.41534	.42546	.43482	.44512	.45432	.46464	.47426	.48544	.49744	.50750	.51762	.52792	.53718	.54650	.55668	.56502	.57414	.58290
0.12	.41860	.42686	.43528	.44424	.45278	.46230	.47070	.48032	.48956	.50022	.51154	.52114	.53082	.54076	.54974	.55874	.56856	.57654	.58534	.59376
0.13	.43964	.44708	.45468	.46282	.47054	.47920	.48692	.49562	.50420	.51414	.52490	.53400	.54316	.55286	.56158	.57006	.57944	.58732	.59574	.60390
0.14	.45820	.46508	.47190	.47936	.48624	.49412	.50132	.50956	.51772	.52718	.53752	.54616	.55500	.56424	.57262	.58066	.58978	.59730	.60516	.61302
0.15	.47676	.48308	.48926	.49604	.50222	.50962	.51636	.52406	.53150	.54050	.55022	.55848	.56690	.57570	.58374	.59150	.60006	.60726	.61490	.62246
0.16	.49514	.50096	.50656	.51284	.51822	.52492	.53116	.53846	.54538	.55398	.56306	.57080	.57876	.58720	.59494	.60234	.61074	.61786	.62502	.63220
0.17	.51228	.51786	.52296	.52854	.53358	.53974	.54548	.55228	.55874	.56680	.57546	.58290	.59040	.59858	.60592	.61300	.62114	.62774	.63482	.64178
0.18	.52816	.53340	.53794	.54300	.54748	.55322	.55848	.56472	.57080	.57824	.58642	.59354	.60062	.60846	.61540	.62220	.62996	.63636	.64322	.64996
0.19	.54368	.54864	.55274	.55732	.56134	.56668	.57154	.57724	.58302	.58996	.59770	.60444	.61118	.61866	.62524	.63182	.63914	.64518	.65186	.65832
0.20	.55858	.56334	.56896	.57324	.57876	.58156	.58600	.59130	.59668	.60318	.61030	.61678	.62320	.63030	.63644	.64258	.64960	.65534	.66166	.66788

Powers of $CM(Ref) - V$ Sequential test against Gamma for n = 20

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.06116	.11056	.15286	.18474	.21656	.24262	.26894	.29070	.31710	.33668	.35918	.37754	.39564	.41102	.42722	.44170	.45644	.46994	.48438
0.02	.10732	.15620	.19642	.23272	.25996	.28802	.31116	.33428	.35326	.37668	.39366	.41396	.43030	.44680	.46058	.47826	.48824	.50164	.51408	.52754
0.03	.19222	.23120	.26478	.29590	.31992	.34478	.36548	.38632	.40326	.42444	.43978	.45814	.47308	.48844	.50122	.51448	.52658	.53884	.55048	.56282
0.04	.25428	.28690	.31582	.34298	.36428	.38622	.40526	.42454	.44008	.45948	.47384	.49062	.50436	.51824	.53046	.54286	.55398	.56540	.57592	.58760
0.05	.31002	.33706	.36126	.38466	.40318	.42262	.43992	.45722	.47156	.48950	.50274	.51622	.53072	.54364	.55500	.56656	.57702	.58766	.59746	.60854
0.06	.35734	.38032	.40120	.42168	.43810	.45564	.47168	.48746	.50060	.51712	.52922	.54358	.55510	.56698	.57764	.58842	.59846	.60828	.61754	.62768
0.07	.39918	.41886	.43690	.45494	.46940	.48540	.50000	.51420	.52642	.54174	.55300	.56642	.57698	.58822	.59804	.60848	.61784	.62718	.63600	.64576
0.08	.43502	.45208	.46802	.48416	.49716	.51134	.52468	.53754	.54878	.56286	.57330	.58582	.59580	.60622	.61564	.62544	.63426	.64326	.65154	.66080
0.09	.46624	.48160	.49576	.50972	.52132	.53408	.54630	.55832	.56858	.58198	.59158	.60332	.61282	.62284	.63172	.64106	.64944	.65798	.66588	.67482
0.10	.49346	.50692	.51924	.53178	.54254	.55440	.56570	.57688	.58630	.59888	.60814	.61906	.62792	.63746	.64598	.65476	.66286	.67104	.67856	.68888
0.11	.51694	.53122	.54204	.55334	.56306	.57370	.58412	.59414	.60300	.61476	.62322	.63376	.64220	.65130	.65950	.66794	.67576	.68338	.69058	.69852
0.12	.54656	.55734	.56700	.57682	.58554	.59498	.60434	.61352	.62170	.63246	.64034	.65034	.65818	.66666	.67436	.68230	.68954	.69680	.70358	.71118
0.13	.56756	.57746	.58622	.59494	.60298	.61152	.61994	.62834	.63586	.64594	.65354	.66304	.67042	.67848	.68586	.69344	.70028	.70716	.71354	.72078
0.14	.58748	.59650	.60436	.61228	.61948	.62726	.63504	.64270	.64966	.65914	.66642	.67532	.68230	.68994	.69688	.70404	.71044	.71702	.72308	.72996
0.15	.60682	.61520	.62234	.62956	.63602	.64322	.65022	.65740	.66384	.67260	.67940	.68768	.69414	.70132	.70792	.71480	.72078	.72694	.73260	.73910
0.16	.62660	.63434	.64080	.64728	.65304	.65942	.66564	.67212	.67798	.68594	.69218	.69982	.70578	.71246	.71874	.72530	.73110	.73702	.74240	.74856
0.17	.64322	.65050	.65628	.66198	.66742	.67338	.67918	.68518	.69068	.69798	.70396	.71110	.71672	.72290	.72884	.73498	.74052	.74628	.75138	.75728
0.18	.65892	.66570	.67104	.67632	.68124	.68670	.69188	.69740	.70262	.70950	.71506	.72174	.72706	.73288	.73858	.74446	.74968	.75518	.76004	.76566
0.19	.67406	.68052	.68552	.69046	.69490	.69998	.70474	.70996	.71486	.72120	.72622	.73234	.73738	.74284	.74814	.75358	.75844	.76372	.76836	.77356
0.20	.68920	.69530	.69994	.70444	.70842	.71294	.71734	.72206	.72648	.73232	.73692	.74256	.74720	.75240	.75732	.76256	.76718	.77216	.77664	.78160

Table B.5 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Gamma for n = 25

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.07890	.13610	.19098	.23542	.27356	.30382	.33078	.35706	.38076	.40438	.42604	.44546	.46256	.47732	.49288	.50756	.52290	.53828	.55250
0.02	.15860	.21698	.26164	.30410	.34068	.37238	.39774	.41992	.44204	.46224	.48244	.50122	.51794	.53220	.54524	.55854	.57112	.58422	.59756	.61008
0.03	.26356	.31026	.34642	.38116	.41198	.43878	.46086	.48034	.49946	.51736	.53518	.55182	.56662	.57930	.59058	.60220	.61350	.62496	.63712	.64836
0.04	.35020	.38790	.41752	.44610	.47214	.49504	.51448	.53122	.54816	.56362	.57932	.59432	.60766	.61926	.62934	.64000	.65022	.66070	.67176	.68198
0.05	.41752	.44856	.47266	.49722	.51948	.53936	.55612	.57078	.58552	.59956	.61354	.62712	.63940	.64996	.65912	.66882	.67836	.68782	.69796	.70742
0.06	.46858	.49506	.51560	.53654	.55570	.57346	.58828	.60156	.61468	.62732	.64006	.65260	.66368	.67344	.68190	.69074	.69952	.70822	.71756	.72644
0.07	.50918	.53252	.55058	.56924	.58590	.60158	.61506	.62712	.63888	.65052	.66208	.67368	.68382	.69304	.70082	.70904	.71726	.72528	.73406	.74238
0.08	.54824	.56866	.58470	.60088	.61524	.62902	.64134	.65186	.66238	.67308	.68380	.69456	.70370	.71228	.71950	.72690	.73452	.74216	.75032	.75784
0.09	.58120	.59936	.61352	.62754	.64048	.65258	.66362	.67282	.68216	.69166	.70162	.71164	.72022	.72816	.73498	.74198	.74906	.75604	.76356	.77068
0.10	.61312	.62930	.64202	.65426	.66518	.67582	.68580	.69414	.70220	.71080	.71992	.72900	.73676	.74408	.75016	.75662	.76318	.76954	.77684	.78340
0.11	.64102	.65546	.66664	.67764	.68704	.69636	.70504	.71260	.72012	.72806	.73634	.74452	.75180	.75854	.76432	.77044	.77664	.78260	.78940	.79556
0.12	.66412	.67712	.68730	.69726	.70574	.71414	.72188	.72864	.73546	.74286	.75068	.75828	.76498	.77120	.77662	.78230	.78818	.79378	.80016	.80592
0.13	.68504	.69676	.70608	.71500	.72280	.73054	.73754	.74348	.74976	.75654	.76368	.77084	.77720	.78284	.78796	.79340	.79894	.80416	.81024	.81546
0.14	.70596	.71664	.72506	.73296	.73982	.74680	.75322	.75858	.76418	.77048	.77702	.78358	.78946	.79478	.79964	.80466	.80970	.81438	.81990	.82476
0.15	.72546	.73518	.74274	.74994	.75622	.76238	.76828	.77316	.77820	.78390	.78992	.79596	.80132	.80614	.81048	.81500	.81974	.82404	.82912	.83372
0.16	.74388	.75272	.75956	.76584	.77152	.77674	.78196	.78634	.79088	.79592	.80120	.80668	.81166	.81598	.81998	.82420	.82854	.83258	.83736	.84176
0.17	.76096	.76906	.77532	.78072	.78574	.79060	.79524	.79914	.80314	.80758	.81234	.81714	.82174	.82574	.82938	.83338	.83736	.84116	.84564	.84980
0.18	.77518	.78268	.78840	.79342	.79796	.80238	.80658	.81022	.81386	.81786	.82230	.82666	.83088	.83462	.83802	.84180	.84548	.84908	.85318	.85706
0.19	.78750	.79468	.79994	.80432	.80848	.81228	.81602	.81934	.82274	.82644	.83056	.83462	.83860	.84218	.84526	.84886	.85224	.85558	.85934	.86304
0.20	.79982	.80672	.81166	.81562	.81928	.82274	.82618	.82916	.83222	.83572	.83950	.84314	.84680	.85022	.85286	.85618	.85932	.86244	.86592	.86940

Powers of $CM(Ref) - V$ Sequential test against Gamma for n = 30

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10490	.17254	.22912	.27382	.31154	.34548	.37864	.40638	.43444	.45574	.47650	.49868	.51908	.53806	.55370	.56988	.58448	.59968	.61484
0.02	.21880	.29192	.34080	.38296	.41686	.44546	.47154	.49694	.51802	.54020	.55756	.57408	.59176	.60872	.62376	.63660	.64934	.66072	.67290	.68520
0.03	.34394	.40010	.43752	.47038	.49764	.52098	.54278	.56358	.58140	.60028	.61520	.62932	.64440	.65894	.67216	.68290	.69374	.70372	.71420	.72492
0.04	.44230	.48644	.51630	.54278	.56470	.58350	.60112	.61904	.63368	.64924	.66200	.67418	.68670	.69934	.71088	.72014	.72932	.73840	.74756	.75686
0.05	.51068	.54754	.57234	.59402	.61212	.62804	.64336	.65912	.67216	.68548	.69676	.70742	.71860	.72958	.74000	.74846	.75652	.76470	.77262	.78082
0.06	.56342	.59420	.61538	.63370	.64886	.66248	.67572	.68968	.70118	.71290	.72286	.73232	.74240	.75230	.76174	.76948	.77724	.78478	.79192	.79946
0.07	.61238	.63840	.65618	.67162	.68448	.69570	.70696	.71882	.72888	.73968	.74846	.75704	.76630	.77504	.78324	.79002	.79712	.80378	.81026	.81720
0.08	.65148	.67356	.68866	.70214	.71326	.72304	.73274	.74318	.75232	.76182	.76936	.77696	.78556	.79334	.80096	.80706	.81356	.81976	.82572	.83204
0.09	.68252	.70236	.71572	.72744	.73708	.74568	.75424	.76336	.77154	.77994	.78686	.79386	.80176	.80870	.81642	.82112	.82698	.83266	.83792	.84380
0.10	.71172	.72942	.74098	.75132	.75986	.76748	.77492	.78324	.79042	.79776	.80402	.81044	.81764	.82400	.83006	.83514	.84048	.84558	.85024	.85586
0.11	.73380	.75008	.76038	.76942	.77682	.78372	.79050	.79812	.80450	.81126	.81708	.82280	.82930	.83498	.84056	.84512	.85012	.85470	.85912	.86396
0.12	.75590	.77072	.77998	.78788	.79446	.80074	.80676	.81378	.81938	.82548	.83068	.83588	.84176	.84680	.85194	.85592	.86050	.86446	.86884	.87328
0.13	.77360	.78716	.79596	.80280	.80890	.81466	.81992	.82626	.83124	.83666	.84136	.84614	.85158	.85624	.86104	.86466	.86878	.87270	.87642	.88068
0.14	.79220	.80444	.81234	.81812	.82364	.82852	.83316	.83896	.84338	.84838	.85268	.85692	.86188	.86590	.87062	.87390	.87756	.88128	.88486	.88900
0.15	.80904	.82000	.82694	.83216	.83702	.84134	.84528	.85038	.85422	.85866	.86256	.86646	.87090	.87466	.87874	.88174	.88520	.88860	.89186	.89582
0.16	.82252	.83254	.83904	.84374	.84814	.85222	.85586	.86034	.86366	.86764	.87116	.87470	.87892	.88226	.88604	.88870	.89192	.89508	.89796	.90180
0.17	.83432	.84372	.84976	.85396	.85800	.86176	.86520	.86896	.87188	.87546	.87856	.88186	.88590	.88904	.89256	.89516	.89818	.90122	.90392	.90704
0.18	.84724	.85596	.86150	.86524	.86866	.87202	.87502	.87846	.88110	.88428	.88718	.89022	.89388	.89678	.90000	.90244	.90534	.90812	.91068	.91342
0.19	.85900	.86684	.87202	.87548	.87852	.88148	.88420	.88728	.88974	.89254	.89520	.89790	.90130	.90404	.90694	.90914	.91180	.91434	.91672	.91928
0.20	.86918	.87664	.88112	.88424	.88712	.88966	.89208	.89494	.89714	.89972	.90214	.90466	.90772	.91034	.91292	.91492	.91740	.91966	.92192	.92418

Table B.5 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Gamma for n = 35

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.12672	.20722	.26486	.31290	.35122	.38796	.42016	.45258	.47850	.50320	.52372	.54440	.56374	.58246	.59832	.61460	.63162	.64456	.65814
0.02	.26418	.34900	.40360	.44450	.47830	.50598	.53304	.55760	.58168	.60064	.61896	.63408	.64964	.66478	.67884	.69136	.70362	.71632	.72622	.73634
0.03	.42064	.48258	.52246	.55384	.57916	.60012	.62096	.64058	.65984	.67480	.68972	.70170	.71368	.72578	.73694	.74708	.75690	.76708	.77496	.78286
0.04	.52724	.57480	.60528	.62966	.64920	.66592	.68308	.69918	.71496	.72702	.73914	.74904	.75902	.76880	.77796	.78612	.79424	.80266	.80974	.81626
0.05	.60160	.64024	.66498	.68380	.69970	.71354	.72734	.74092	.75388	.76402	.77440	.78280	.79118	.79982	.80762	.81446	.82142	.82886	.83456	.84032
0.06	.66050	.69250	.71282	.72778	.74084	.75216	.76360	.77486	.78544	.79414	.80312	.81018	.81746	.82504	.83164	.83742	.84372	.84998	.85492	.85982
0.07	.70030	.72804	.74554	.75850	.76950	.77902	.78916	.79858	.80744	.81526	.82278	.82880	.83532	.84212	.84780	.85300	.85850	.86430	.86876	.87310
0.08	.73542	.75908	.77400	.78508	.79432	.80232	.81092	.81884	.82650	.83338	.84026	.84558	.85142	.85750	.86234	.86690	.87172	.87678	.88084	.88490
0.09	.76414	.78480	.79802	.80758	.81576	.82260	.82996	.83670	.84366	.84958	.85582	.86066	.86586	.87106	.87556	.87956	.88372	.88814	.89184	.89552
0.10	.78836	.80668	.81832	.82646	.83370	.83950	.84608	.85218	.85810	.86336	.86876	.87308	.87768	.88226	.88612	.88976	.89356	.89738	.90086	.90420
0.11	.80926	.82546	.83604	.84314	.84934	.85452	.86018	.86552	.87084	.87558	.88048	.88418	.88846	.89266	.89612	.89936	.90280	.90618	.90938	.91236
0.12	.82952	.84352	.85264	.85862	.86396	.86842	.87312	.87766	.88242	.88664	.89120	.89448	.89840	.90208	.90518	.90818	.91124	.91424	.91714	.91974
0.13	.84670	.85916	.86696	.87238	.87690	.88070	.88482	.88890	.89314	.89682	.90082	.90386	.90716	.91044	.91310	.91576	.91858	.92134	.92402	.92636
0.14	.86256	.87386	.88088	.88528	.88922	.89260	.89606	.89960	.90340	.90644	.90998	.91268	.91552	.91846	.92092	.92330	.92578	.92830	.93078	.93270
0.15	.87422	.88438	.89060	.89446	.89800	.90106	.90418	.90736	.91078	.91340	.91662	.91902	.92158	.92426	.92660	.92892	.93116	.93346	.93574	.93756
0.16	.88564	.89444	.89996	.90344	.90654	.90926	.91206	.91484	.91792	.92024	.92324	.92530	.92754	.92992	.93212	.93426	.93618	.93824	.94036	.94210
0.17	.89662	.90430	.90936	.91252	.91534	.91792	.92048	.92288	.92558	.92754	.93016	.93190	.93384	.93594	.93802	.94002	.94176	.94356	.94546	.94702
0.18	.90588	.91284	.91728	.92010	.92266	.92490	.92714	.92908	.93150	.93326	.93566	.93714	.93878	.94056	.94240	.94426	.94576	.94756	.94930	.95076
0.19	.91316	.91952	.92372	.92632	.92862	.93060	.93266	.93444	.93666	.93814	.94036	.94180	.94326	.94490	.94654	.94812	.94946	.95098	.95264	.95400
0.20	.92082	.92656	.93050	.93286	.93492	.93676	.93846	.93994	.94186	.94324	.94522	.94652	.94786	.94930	.95088	.95224	.95332	.95458	.95614	.95740

Powers of $CM(Ref) - V$ Sequential test against Gamma for n = 40

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.15312	.24522	.31482	.36690	.41308	.45054	.48184	.51302	.54040	.56160	.58240	.60298	.62150	.63896	.65276	.66838	.68192	.69430	.70684
0.02	.31444	.41204	.47224	.51840	.55250	.58352	.60838	.63028	.65264	.67088	.68618	.70102	.71524	.72770	.73998	.74972	.76068	.77044	.77992	.78878
0.03	.48416	.55408	.59672	.63090	.65586	.67904	.69736	.71400	.73050	.74426	.75568	.76718	.77780	.78714	.79650	.80382	.81268	.82024	.82788	.83530
0.04	.59700	.64932	.68058	.70556	.72486	.74240	.75614	.76880	.78188	.79244	.80174	.81080	.81948	.82682	.83416	.83978	.84682	.85304	.85934	.86534
0.05	.66654	.70852	.73316	.75276	.76866	.78248	.79398	.80452	.81508	.82388	.83156	.83890	.84620	.85226	.85832	.86310	.86894	.87432	.87954	.88466
0.06	.71600	.75156	.77200	.78806	.80108	.81300	.82234	.83154	.84026	.84770	.85456	.86060	.86688	.87198	.87728	.88178	.88688	.89148	.89582	.90004
0.07	.76348	.79264	.80878	.82166	.83194	.84202	.84968	.85714	.86484	.87070	.87598	.88114	.88624	.89052	.89484	.89858	.90276	.90670	.91022	.91380
0.08	.79792	.82282	.83628	.84686	.85540	.86366	.87010	.87642	.88314	.88808	.89278	.89668	.90098	.90472	.90838	.91172	.91532	.91878	.92180	.92480
0.09	.82560	.84668	.85750	.86628	.87340	.88044	.88572	.89112	.89690	.90108	.90498	.90864	.91224	.91560	.91874	.92172	.92472	.92778	.93058	.93344
0.10	.85138	.86912	.87786	.88552	.89134	.89706	.90144	.90586	.91058	.91408	.91748	.92070	.92370	.92654	.92930	.93152	.93408	.93654	.93914	.94172
0.11	.87034	.88582	.89324	.89922	.90402	.90888	.91252	.91610	.92038	.92342	.92634	.92918	.93172	.93398	.93634	.93840	.94058	.94282	.94524	.94754
0.12	.88686	.90016	.90636	.91146	.91564	.91958	.92292	.92612	.92974	.93232	.93488	.93728	.93944	.94142	.94348	.94532	.94728	.94920	.95130	.95322
0.13	.89968	.91160	.91708	.92170	.92542	.92880	.93170	.93454	.93774	.93996	.94210	.94416	.94600	.94776	.94942	.95104	.95274	.95450	.95644	.95810
0.14	.91040	.92118	.92616	.92996	.93326	.93616	.93860	.94124	.94402	.94610	.94804	.94982	.95142	.95306	.95444	.95578	.95728	.95884	.96050	.96194
0.15	.91896	.92878	.93326	.93656	.93954	.94188	.94412	.94650	.94900	.95086	.95270	.95430	.95574	.95728	.95860	.95982	.96112	.96244	.96402	.96532
0.16	.92908	.93764	.94134	.94418	.94664	.94862	.95046	.95254	.95470	.95640	.95794	.95922	.96048	.96160	.96274	.96372	.96488	.96606	.96750	.96882
0.17	.93524	.94320	.94638	.94896	.95118	.95290	.95456	.95650	.95834	.95986	.96120	.96240	.96360	.96456	.96552	.96638	.96746	.96854	.96974	.97068
0.18	.94076	.94814	.95110	.95346	.95558	.95704	.95850	.96030	.96202	.96340	.96452	.96562	.96672	.96758	.96844	.96924	.97016	.97120	.97230	.97318
0.19	.94678	.95336	.95600	.95814	.95996	.96130	.96264	.96424	.96578	.96698	.96792	.96880	.96984	.97054	.97132	.97198	.97284	.97344	.97480	.97550
0.20	.95160	.95766	.96006	.96206	.96378	.96500	.96608	.96754	.96894	.97002	.97084	.97170	.97256	.97320	.97394	.97460	.97534	.97624	.97704	.97770

Table B.5 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Gamma for $n = 45$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.16044	.25764	.33160	.38714	.43398	.47896	.51662	.54854	.57210	.59564	.61504	.63534	.65242	.67114	.68746	.70162	.71504	.72758	.73988
0.02	.39680	.46854	.54254	.58606	.61932	.64720	.67394	.69696	.71468	.73110	.74620	.75796	.77040	.78030	.79266	.80316	.81206	.82056	.82838	.83616
0.03	.57366	.63640	.67350	.70290	.72562	.74472	.76280	.77888	.79174	.80320	.81354	.82244	.83198	.83912	.84800	.85558	.86234	.86790	.87354	.87930
0.04	.68030	.72576	.75200	.77394	.79114	.80510	.81830	.83040	.84110	.84954	.85750	.86434	.87146	.87706	.88350	.88866	.89398	.89782	.90258	.90690
0.05	.74684	.78252	.80290	.81996	.83326	.84392	.85430	.86400	.87286	.87940	.88558	.89114	.89660	.90124	.90622	.91056	.91500	.91812	.92194	.92542
0.06	.79930	.82784	.84400	.85684	.86774	.87584	.88362	.89132	.89830	.90296	.90766	.91184	.91620	.91990	.92360	.92700	.93022	.93280	.93582	.93864
0.07	.83280	.85672	.86998	.88046	.88928	.89582	.90244	.90882	.91458	.91854	.92236	.92574	.92940	.93266	.93550	.93840	.94088	.94294	.94548	.94766
0.08	.86018	.87972	.89072	.89944	.90654	.91188	.91750	.92280	.92758	.93084	.93404	.93662	.93986	.94248	.94482	.94716	.94916	.95080	.95304	.95502
0.09	.88498	.90090	.90978	.91706	.92262	.92702	.93150	.93578	.93978	.94246	.94502	.94702	.94960	.95172	.95380	.95574	.95742	.95880	.96034	.96184
0.10	.90072	.91492	.92228	.92870	.93352	.93730	.94100	.94474	.94796	.94998	.95200	.95380	.95566	.95748	.95928	.96094	.96242	.96358	.96488	.96604
0.11	.91312	.92570	.93184	.93730	.94134	.94474	.94772	.95110	.95396	.95574	.95756	.95890	.96080	.96234	.96400	.96564	.96698	.96776	.96896	.97006
0.12	.92614	.93654	.94146	.94568	.94916	.95218	.95458	.95740	.95982	.96122	.96288	.96410	.96570	.96714	.96852	.96996	.97112	.97178	.97284	.97370
0.13	.93708	.94596	.94992	.95352	.95640	.95882	.96074	.96286	.96484	.96602	.96746	.96854	.96992	.97114	.97216	.97336	.97436	.97498	.97580	.97652
0.14	.94480	.95220	.95562	.95882	.96122	.96318	.96474	.96646	.96822	.96922	.97038	.97128	.97250	.97360	.97444	.97564	.97660	.97718	.97794	.97862
0.15	.95062	.95738	.96042	.96316	.96502	.96662	.96798	.96956	.97108	.97190	.97298	.97378	.97488	.97586	.97674	.97786	.97878	.97936	.98006	.98068
0.16	.95634	.96224	.96504	.96746	.96910	.97042	.97154	.97292	.97428	.97500	.97594	.97654	.97732	.97822	.97902	.97998	.98074	.98128	.98174	.98230
0.17	.96082	.96592	.96846	.97066	.97218	.97334	.97444	.97568	.97680	.97744	.97832	.97892	.97956	.98040	.98116	.98200	.98270	.98320	.98360	.98406
0.18	.96488	.96952	.97178	.97386	.97528	.97638	.97740	.97850	.97938	.98002	.98076	.98128	.98184	.98260	.98334	.98418	.98470	.98510	.98544	.98590
0.19	.96930	.97318	.97518	.97678	.97812	.97892	.97972	.98078	.98160	.98222	.98290	.98340	.98372	.98430	.98502	.98580	.98620	.98654	.98688	.98732
0.20	.97214	.97570	.97756	.97904	.98032	.98098	.98164	.98252	.98334	.98392	.98446	.98496	.98522	.98578	.98646	.98714	.98752	.98784	.98814	.98856

Powers of $CM(Ref) - V$ Sequential test against Gamma for $n = 50$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.17080	.28134	.35912	.42340	.47382	.51732	.55242	.58542	.61058	.63488	.65454	.67464	.69058	.70628	.71908	.73278	.74580	.75884	.77030
0.02	.43734	.53098	.59054	.63372	.67060	.69896	.72208	.74212	.76218	.77574	.78950	.80016	.81218	.82102	.83040	.83736	.84510	.85244	.85980	.86698
0.03	.61482	.67912	.71940	.74788	.77212	.79110	.80692	.82134	.83496	.84436	.85384	.86164	.86968	.87590	.88222	.88674	.89222	.89742	.90262	.90734
0.04	.71312	.76062	.79000	.81058	.82840	.84208	.85404	.86494	.87462	.88238	.88946	.89572	.90122	.90572	.91042	.91370	.91790	.92178	.92600	.92914
0.05	.78834	.82368	.84458	.85944	.87182	.88152	.89048	.89784	.90508	.91112	.91644	.92132	.92544	.92828	.93216	.93474	.93788	.94054	.94364	.94578
0.06	.83590	.86344	.87960	.89098	.90022	.90750	.91418	.91960	.92524	.93008	.93410	.93782	.94070	.94306	.94628	.94840	.95094	.95302	.95548	.95726
0.07	.86900	.89090	.90388	.91280	.92020	.92564	.93116	.93584	.94034	.94380	.94688	.94974	.95198	.95384	.95670	.95848	.96040	.96202	.96388	.96518
0.08	.89698	.91418	.92408	.93132	.93694	.94078	.94478	.94878	.95218	.95510	.95770	.96000	.96160	.96286	.96518	.96662	.96800	.96938	.97116	.97210
0.09	.91578	.92968	.93792	.94324	.94762	.95098	.95442	.95756	.96024	.96260	.96456	.96654	.96786	.96886	.97078	.97204	.97332	.97444	.97600	.97684
0.10	.93182	.94336	.94950	.95362	.95716	.95984	.96246	.96402	.96686	.96880	.97042	.97228	.97328	.97414	.97570	.97666	.97764	.97850	.97978	.98030
0.11	.94306	.95230	.95760	.96098	.96382	.96626	.96820	.97024	.97162	.97316	.97456	.97596	.97676	.97734	.97876	.97954	.98036	.98098	.98222	.98260
0.12	.94986	.95842	.96308	.96590	.96844	.97066	.97232	.97386	.97516	.97652	.97780	.97896	.97962	.98018	.98136	.98204	.98256	.98310	.98418	.98456
0.13	.95688	.96450	.96872	.97098	.97310	.97500	.97644	.97772	.97886	.98000	.98110	.98220	.98274	.98324	.98426	.98488	.98522	.98554	.98634	.98644
0.14	.96154	.96876	.97248	.97440	.97620	.97786	.97928	.98042	.98120	.98226	.98330	.98416	.98456	.98502	.98600	.98654	.98684	.98706	.98794	.98822
0.15	.96580	.97224	.97570	.97746	.97914	.98046	.98178	.98284	.98358	.98454	.98542	.98614	.98664	.98696	.98774	.98816	.98846	.98864	.98946	.98976
0.16	.96834	.97446	.97780	.97944	.98092	.98220	.98336	.98440	.98510	.98590	.98672	.98744	.98780	.98822	.98894	.98934	.98964	.98968	.99048	.99076
0.17	.97038	.97596	.97916	.98068	.98200	.98324	.98434	.98532	.98600	.98680	.98756	.98826	.98860	.98896	.98964	.99008	.99026	.99040	.99114	.99140
0.18	.97482	.97964	.98226	.98352	.98452	.98552	.98658	.98742	.98810	.98874	.98924	.98970	.99002	.99038	.99100	.99126	.99146	.99186	.99222	.99246
0.19	.98110	.98470	.98640	.98728	.98804	.98872	.98942	.99008	.99064	.99102	.99138	.99180	.99194	.99228	.99284	.99304	.99316	.99326	.99366	.99388
0.20	.98348	.98670	.98818	.98906	.98964	.99026	.99096	.99154	.99196	.99232	.99268	.99296	.99306	.99340	.99396	.99412	.99420	.99430	.99448	.99482

Table B.5 (Continued)

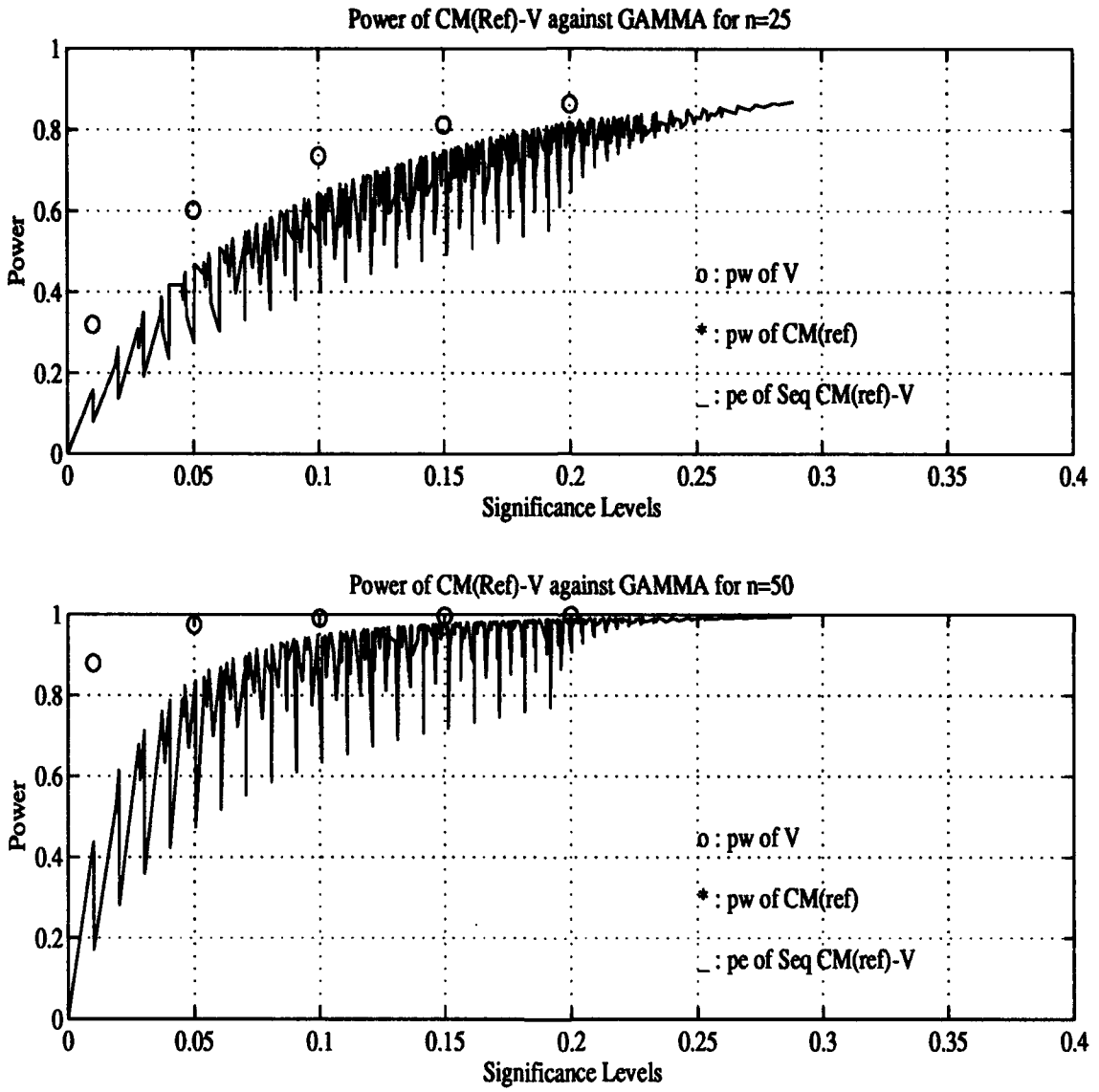

Figure E.4 Power comparisons of $CM(Ref) - V$ against Gamma

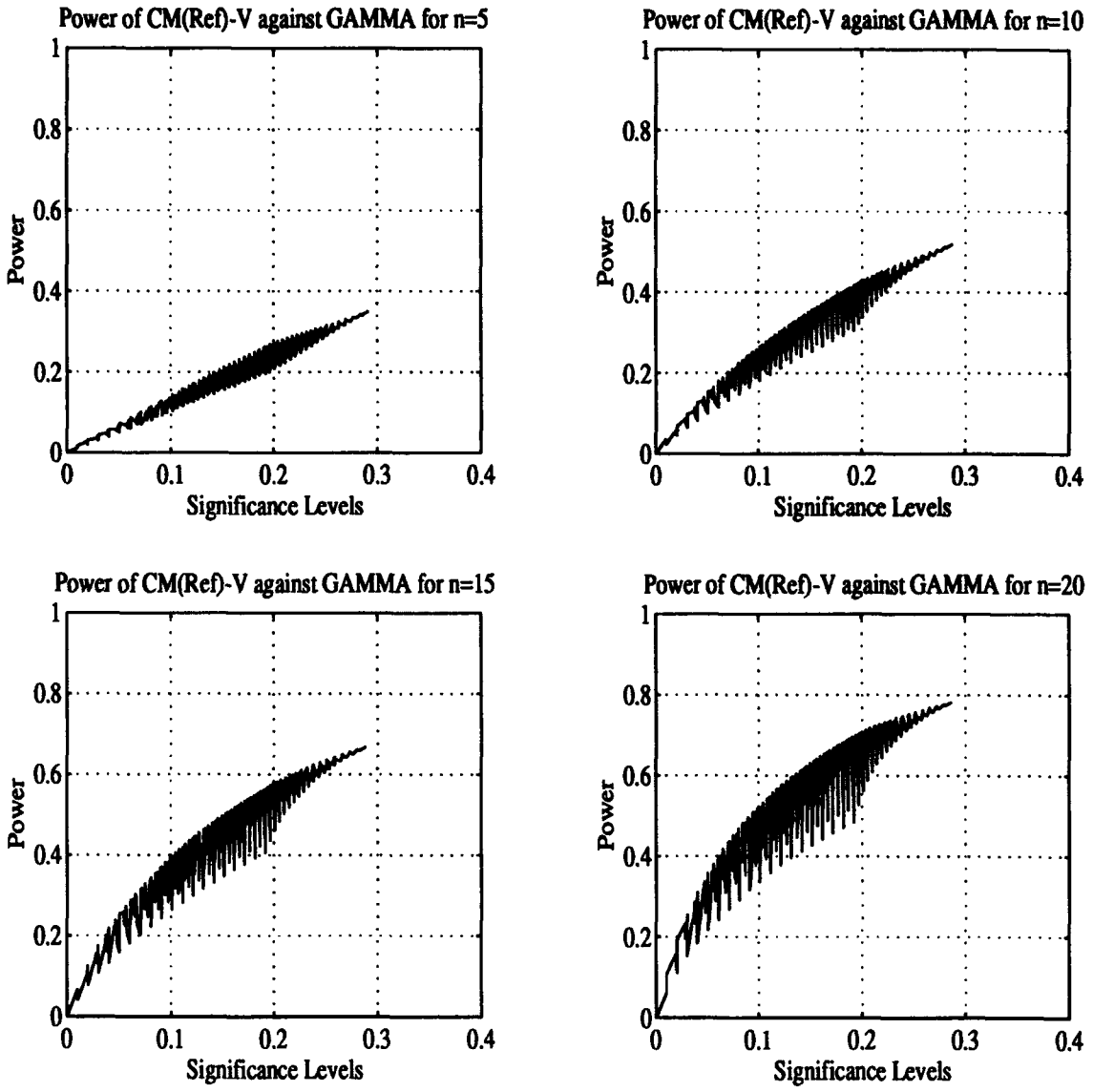

Figure E.4 (Continued)

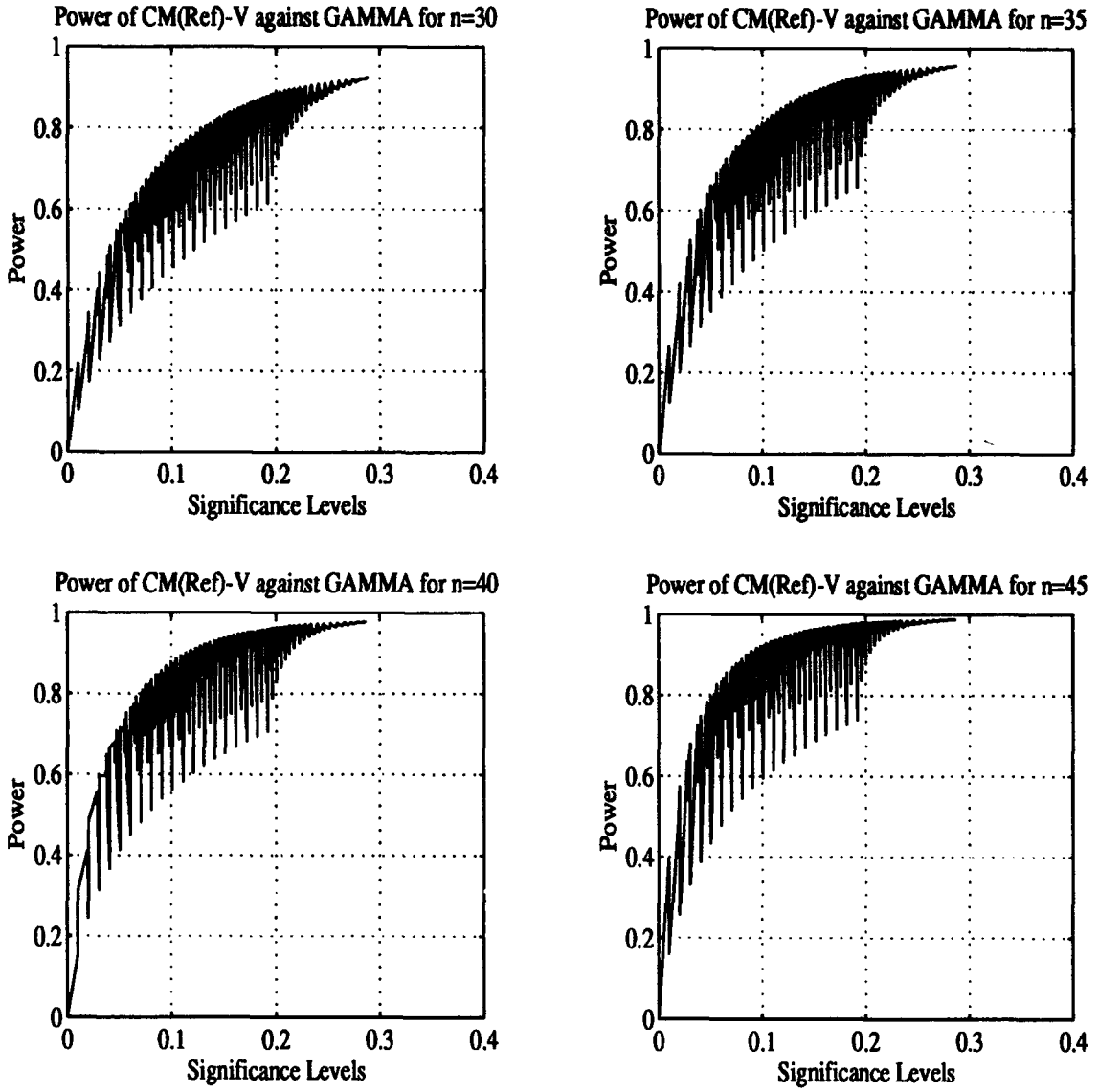

Figure E.4 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Weibull for $n = 5$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01066	.01954	.02970	.03940	.05046	.05900	.06826	.07982	.09024	.10028	.11094	.11974	.12870	.13788	.14706	.15660	.16626	.17538	.18462
0.02	.01570	.02574	.03394	.04342	.05252	.06264	.07034	.07858	.08800	.09742	.10724	.11776	.12640	.13520	.14428	.15338	.16284	.17244	.18152	.19080
0.03	.03024	.03990	.04766	.05646	.06516	.07474	.08184	.08954	.09822	.10708	.11630	.12654	.13494	.14362	.15258	.16158	.17094	.18040	.18918	.19840
0.04	.04440	.05362	.06106	.06946	.07776	.08690	.09352	.10090	.10906	.11732	.12614	.13614	.14432	.15274	.16148	.17022	.17942	.18868	.19710	.20614
0.05	.05702	.06596	.07308	.08110	.08910	.09778	.10412	.11102	.11872	.12662	.13500	.14448	.15242	.16060	.16918	.17776	.18686	.19596	.20426	.21310
0.06	.07136	.07976	.08660	.09410	.10174	.10996	.11608	.12262	.13004	.13722	.14502	.15406	.16168	.16958	.17796	.18634	.19520	.20416	.21244	.22110
0.07	.08478	.09296	.09946	.10654	.11400	.12186	.12768	.13400	.14080	.14742	.15484	.16334	.17074	.17842	.18654	.19468	.20322	.21202	.22016	.22860
0.08	.09654	.10448	.11070	.11740	.12456	.13216	.13774	.14374	.15016	.15650	.16344	.17154	.17868	.18608	.19396	.20192	.21028	.21892	.22698	.23522
0.09	.11000	.11776	.12378	.13030	.13722	.14436	.14964	.15530	.16130	.16716	.17378	.18158	.18836	.19544	.20322	.21106	.21924	.22768	.23566	.24376
0.10	.12290	.13044	.13614	.14238	.14898	.15574	.16086	.16624	.17182	.17740	.18348	.19092	.19734	.20424	.21184	.21944	.22740	.23568	.24344	.25128
0.11	.13702	.14440	.14970	.15570	.16206	.16856	.17336	.17846	.18370	.18904	.19458	.20166	.20770	.21430	.22166	.22910	.23682	.24498	.25252	.26006
0.12	.15098	.15806	.16324	.16892	.17504	.18126	.18594	.19078	.19564	.20076	.20594	.21234	.21800	.22428	.23140	.23858	.24614	.25410	.26130	.26862
0.13	.16322	.16996	.17496	.18044	.18638	.19228	.19682	.20142	.20596	.21078	.21574	.22156	.22682	.23284	.23966	.24666	.25410	.26178	.26882	.27604
0.14	.17662	.18310	.18798	.19324	.19886	.20442	.20890	.21310	.21746	.22186	.22660	.23212	.23712	.24282	.24926	.25606	.26336	.27072	.27746	.28458
0.15	.18920	.19538	.20010	.20514	.21054	.21592	.22018	.22422	.22840	.23244	.23696	.24196	.24672	.25222	.25838	.26488	.27190	.27898	.28552	.29246
0.16	.20258	.20846	.21298	.21776	.22294	.22808	.23214	.23612	.24018	.24406	.24832	.25300	.25744	.26264	.26852	.27468	.28152	.28836	.29472	.30146
0.17	.21494	.22062	.22488	.22952	.23440	.23940	.24336	.24716	.25108	.25484	.25894	.26334	.26736	.27192	.27748	.28336	.28994	.29664	.30292	.30956
0.18	.22728	.23282	.23694	.24138	.24614	.25114	.25488	.25858	.26238	.26596	.26986	.27398	.27766	.28186	.28708	.29266	.29884	.30536	.31146	.31790
0.19	.24010	.24546	.24952	.25386	.25836	.26314	.26680	.27026	.27376	.27718	.28080	.28466	.28804	.29200	.29690	.30196	.30786	.31414	.32002	.32618
0.20	.25294	.25806	.26206	.26624	.27056	.27520	.27864	.28204	.28526	.28844	.29192	.29560	.29884	.30250	.30700	.31182	.31734	.32330	.32904	.33496

Powers of $CM(Ref) - V$ Sequential test against Weibull for $n = 10$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02728	.05368	.07748	.09950	.12082	.13904	.16002	.17964	.19992	.22024	.23834	.25788	.27526	.29226	.30760	.32446	.34008	.35408	.36800
0.02	.03026	.05522	.07992	.10234	.12322	.14316	.16046	.18058	.19924	.21852	.23806	.25554	.27430	.29124	.30782	.32276	.33900	.35414	.36768	.38118
0.03	.05590	.07876	.10174	.12278	.14278	.16180	.17830	.19764	.21568	.23426	.25318	.27002	.28814	.30458	.32058	.33506	.35074	.36534	.37854	.39188
0.04	.08050	.10086	.12216	.14210	.16106	.17924	.19506	.21360	.23118	.24910	.26728	.28360	.30126	.31724	.33254	.34662	.36174	.37604	.38884	.40184
0.05	.10504	.12288	.14256	.16144	.17930	.19648	.21146	.22930	.24612	.26342	.28098	.29666	.31370	.32928	.34424	.35786	.37248	.38622	.39886	.41142
0.06	.12844	.14412	.16214	.17976	.19642	.21278	.22690	.24402	.26004	.27690	.29382	.30894	.32540	.34034	.35492	.36822	.38250	.39582	.40784	.42034
0.07	.15138	.16472	.18104	.19740	.21294	.22840	.24160	.25808	.27344	.28972	.30600	.32068	.33670	.35108	.36538	.37846	.39234	.40524	.41700	.42922
0.08	.17148	.18330	.19792	.21306	.22770	.24240	.25514	.27108	.28598	.30164	.31746	.33182	.34740	.36140	.37538	.38822	.40178	.41450	.42600	.43806
0.09	.19152	.20166	.21524	.22890	.24258	.25622	.26806	.28336	.29778	.31292	.32804	.34208	.35718	.37080	.38442	.39694	.41014	.42270	.43388	.44568
0.10	.21008	.21878	.23118	.24374	.25648	.26948	.28080	.29532	.30912	.32364	.33830	.35204	.36684	.38030	.39352	.40570	.41864	.43082	.44186	.45334
0.11	.22848	.23602	.24698	.25848	.27030	.28262	.29342	.30728	.32072	.33472	.34898	.36206	.37656	.38970	.40250	.41422	.42682	.43886	.44934	.46060
0.12	.24584	.25240	.26204	.27254	.28352	.29490	.30500	.31820	.33110	.34442	.35810	.37072	.38404	.39760	.40998	.42150	.43386	.44534	.45586	.46684
0.13	.26212	.26774	.27632	.28592	.29612	.30694	.31662	.32942	.34178	.35440	.36758	.37984	.39366	.40590	.41796	.42912	.44122	.45232	.46272	.47354
0.14	.27736	.28270	.29054	.29932	.30866	.31888	.32798	.34024	.35218	.36434	.37694	.38882	.40210	.41392	.42586	.43680	.44882	.45934	.46954	.48004
0.15	.29396	.29824	.30528	.31318	.32182	.33140	.33998	.35166	.36306	.37472	.38690	.39846	.41132	.42270	.43428	.44484	.45620	.46662	.47676	.48708
0.16	.30924	.31296	.31918	.32638	.33420	.34294	.35098	.36196	.37284	.38406	.39576	.40690	.41934	.43050	.44174	.45216	.46318	.47358	.48330	.49322
0.17	.32550	.32888	.33444	.34082	.34792	.35602	.36336	.37374	.38412	.39472	.40588	.41656	.42842	.43926	.45018	.46040	.47116	.48132	.49060	.50034
0.18	.34204	.34506	.34988	.35560	.36216	.36952	.37642	.38604	.39590	.40612	.41666	.42692	.43822	.44878	.45934	.46916	.47964	.48942	.49852	.50804
0.19	.35816	.35906	.36338	.36846	.37446	.38126	.38778	.39688	.40640	.41600	.42612	.43610	.44712	.45744	.46764	.47726	.48744	.49698	.50594	.51524
0.20	.37056	.37320	.37696	.38164	.38702	.39322	.39928	.40786	.41676	.42576	.43550	.44498	.45554	.46560	.47556	.48490	.49478	.50414	.51290	.52198

Table E.5 Power tables of $CM(Ref) - V$ against Weibull ditribution

Powers of $CM(Ref) - V$ Sequential test against Weibull for m = 15

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.05280	.09948	.14004	.17304	.20668	.23610	.26506	.29100	.31860	.34380	.36728	.38918	.41008	.42874	.44702	.46820	.48484	.50258	.51792
0.02	.04942	.09454	.13722	.17488	.20546	.23694	.26506	.29260	.31704	.34352	.36752	.39006	.41094	.43100	.44890	.46742	.48692	.50284	.51990	.53474
0.03	.09386	.13242	.17088	.20528	.23368	.26332	.28986	.31620	.33950	.36476	.38778	.40928	.42926	.44858	.46574	.48356	.50232	.51778	.53426	.54860
0.04	.13332	.16670	.20094	.23220	.25854	.28666	.31184	.33688	.35868	.38278	.40476	.42542	.44450	.46332	.48004	.49702	.51510	.52994	.54584	.55978
0.05	.16750	.19636	.22698	.25546	.28010	.30660	.33034	.35408	.37482	.39776	.41896	.43884	.45726	.47558	.49164	.50802	.52560	.54000	.55560	.56822
0.06	.19888	.22398	.25140	.27760	.30064	.32564	.34802	.37062	.39078	.41262	.43290	.45188	.46978	.48750	.50320	.51894	.53604	.55012	.56540	.57666
0.07	.22874	.25084	.27502	.29840	.31982	.34300	.36406	.38538	.40460	.42558	.44510	.46328	.48074	.49794	.51318	.52844	.54498	.55866	.57350	.58428
0.08	.25388	.27364	.29510	.31636	.33618	.35788	.37806	.39858	.41688	.43718	.45602	.47350	.49036	.50694	.52182	.53674	.55290	.56628	.58072	.59324
0.09	.28054	.29734	.31632	.33556	.35360	.37384	.39298	.41250	.42980	.44924	.46746	.48436	.50052	.51666	.53130	.54574	.56136	.57430	.58814	.60044
0.10	.30662	.32104	.33760	.35506	.37178	.39044	.40826	.42626	.44284	.46142	.47890	.49504	.51070	.52622	.54034	.55422	.56934	.58178	.59512	.60710
0.11	.33072	.34276	.35734	.37308	.38850	.40562	.42252	.43962	.45540	.47318	.48992	.50532	.52040	.53560	.54924	.56272	.57726	.58940	.60232	.61400
0.12	.35124	.36212	.37524	.38954	.40348	.41942	.43546	.45164	.46652	.48330	.49938	.51438	.52902	.54368	.55690	.57008	.58426	.59620	.60894	.62026
0.13	.37168	.38120	.39276	.40550	.41804	.43294	.44790	.46330	.47742	.49332	.50874	.52318	.53738	.55148	.56428	.57706	.59092	.60242	.61490	.62556
0.14	.39052	.39890	.40918	.42072	.43230	.44594	.46006	.47466	.48800	.50304	.51794	.53190	.54554	.55922	.57172	.58416	.59766	.60878	.62090	.63166
0.15	.40940	.41692	.42602	.43646	.44706	.45952	.47258	.48634	.49898	.51328	.52754	.54084	.55396	.56728	.57930	.59126	.60434	.61530	.62702	.63764
0.16	.42900	.43576	.44402	.45334	.46292	.47448	.48640	.49940	.51142	.52490	.53858	.55132	.56378	.57660	.58828	.59972	.61226	.62296	.63450	.64484
0.17	.44710	.45340	.46064	.46896	.47766	.48820	.49904	.51108	.52246	.53516	.54804	.56022	.57224	.58472	.59598	.60700	.61926	.62970	.64090	.65102
0.18	.46312	.46890	.47566	.48306	.49098	.50058	.51052	.52200	.53266	.54466	.55704	.56864	.58016	.59214	.60306	.61380	.62576	.63584	.64666	.65660
0.19	.47844	.48376	.48962	.49630	.50364	.51252	.52178	.53264	.54272	.55382	.56554	.57672	.58772	.59928	.60974	.62016	.63180	.64156	.65214	.66184
0.20	.49404	.49898	.50440	.51038	.51702	.52518	.53368	.54394	.55348	.56404	.57498	.58554	.59616	.60714	.61716	.62708	.63836	.64770	.65798	.66758

Powers of $CM(Ref) - V$ Sequential test against Weibull for m = 20

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.08850	.15506	.21346	.25882	.30192	.33740	.37326	.40426	.43776	.46616	.49436	.51676	.53772	.55910	.57886	.59734	.61498	.63058	.64802
0.02	.07874	.15116	.20942	.26140	.30272	.34210	.37468	.40816	.43688	.46806	.49440	.52052	.54158	.56124	.58128	.59978	.61728	.63422	.64886	.66540
0.03	.14256	.20344	.25438	.30124	.33860	.37508	.40498	.43656	.46320	.49234	.51690	.54134	.56144	.58014	.59942	.61700	.63364	.64958	.66380	.67946
0.04	.19778	.24846	.29282	.33392	.36800	.40168	.42948	.45898	.48402	.51170	.53494	.55820	.57716	.59492	.61338	.63018	.64632	.66180	.67516	.69042
0.05	.24552	.28788	.32610	.36278	.39410	.42542	.45132	.47916	.50276	.52888	.55112	.57328	.59128	.60824	.62578	.64192	.65760	.67252	.68538	.69998
0.06	.28438	.32022	.35372	.38726	.41600	.44466	.46908	.49520	.51726	.54230	.56330	.58446	.60188	.61810	.63490	.65038	.66544	.67990	.69230	.70652
0.07	.32066	.35170	.38108	.41096	.43672	.46310	.48822	.51082	.53172	.55556	.57548	.59574	.61218	.62782	.64390	.65882	.67340	.68736	.69932	.71306
0.08	.35136	.37866	.40412	.43086	.45458	.47892	.50086	.52422	.54402	.56654	.58566	.60530	.62132	.63640	.65192	.66616	.68032	.69380	.70640	.71872
0.09	.37884	.40250	.42552	.44966	.47156	.49416	.51488	.53696	.55558	.57704	.59536	.61402	.62950	.64432	.65928	.67324	.68694	.70006	.71130	.72416
0.10	.40556	.42636	.44702	.46884	.48860	.50946	.52858	.54972	.56716	.58758	.60490	.62278	.63770	.65202	.66644	.68002	.69312	.70590	.71888	.72934
0.11	.42898	.44756	.46614	.48596	.50408	.52326	.54132	.56102	.57756	.59698	.61364	.63076	.64502	.65882	.67288	.68608	.69892	.71132	.72184	.73410
0.12	.45312	.46942	.48594	.50384	.52058	.53812	.55472	.57302	.58870	.60710	.62292	.63926	.65292	.66622	.67998	.69262	.70512	.71728	.72738	.73930
0.13	.47312	.48782	.50260	.51888	.53448	.55082	.56630	.58342	.59850	.61620	.63144	.64718	.66024	.67316	.68650	.69888	.71108	.72290	.73280	.74432
0.14	.49404	.50714	.52060	.53524	.54956	.56468	.57894	.59500	.60922	.62598	.64046	.65556	.66810	.68044	.69338	.70524	.71690	.72836	.73796	.74914
0.15	.51456	.52654	.53846	.55180	.56472	.57840	.59146	.60640	.61964	.63544	.64932	.66396	.67588	.68782	.69994	.71144	.72272	.73380	.74306	.75400
0.16	.53412	.54490	.55536	.56748	.57948	.59212	.60412	.61794	.63034	.64520	.65806	.67152	.68330	.69446	.70634	.71754	.72832	.73884	.74772	.75814
0.17	.55180	.56174	.57134	.58230	.59308	.60486	.61594	.62868	.64020	.65408	.66628	.67950	.69012	.70112	.71258	.72320	.73370	.74408	.75270	.76272
0.18	.56762	.57678	.58556	.59536	.60516	.61602	.62640	.63804	.64900	.66212	.67360	.68644	.69656	.70722	.71824	.72852	.73844	.74860	.75696	.76660
0.19	.58528	.59360	.60138	.61020	.61914	.62902	.63834	.64886	.65920	.67150	.68202	.69424	.70388	.71398	.72476	.73462	.74448	.75420	.76220	.77158
0.20	.60160	.60928	.61618	.62434	.63234	.64142	.64998	.65982	.66934	.68078	.69060	.70224	.71128	.72096	.73138	.74090	.75046	.75978	.76944	.77856

Table B.6 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Weibull for n = 25

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.11618	.20642	.28168	.34630	.40160	.44496	.48328	.51758	.54786	.57764	.60542	.62938	.64934	.66776	.68738	.70406	.72096	.73616	.74966
0.02	.11180	.20468	.27994	.34492	.40226	.45172	.49066	.52524	.55558	.58318	.61036	.63542	.65744	.67556	.69272	.71090	.72622	.74148	.75544	.76800
0.03	.19212	.26794	.33192	.38888	.43962	.48448	.52038	.55204	.58008	.60588	.63106	.65450	.67496	.69188	.70782	.72486	.73916	.75342	.76656	.77842
0.04	.26220	.32432	.37836	.42834	.47534	.51400	.54676	.57560	.60152	.62560	.64890	.67082	.69018	.70622	.72128	.73744	.75078	.76440	.77688	.78778
0.05	.32074	.37254	.41808	.46180	.50216	.53872	.56866	.59536	.61962	.64192	.66382	.68432	.70386	.71778	.73226	.74746	.76010	.77326	.78472	.79518
0.06	.36524	.40912	.44846	.48706	.52374	.55714	.58500	.61006	.63308	.65418	.67522	.69464	.71194	.72652	.74048	.75512	.76720	.77998	.79112	.80130
0.07	.40252	.44024	.47456	.50934	.54260	.57334	.59952	.62346	.64508	.66516	.68540	.70420	.72084	.73462	.74794	.76208	.77356	.78598	.79670	.80660
0.08	.43962	.47196	.50160	.53310	.56310	.59092	.61538	.63778	.65800	.67712	.69612	.71410	.72990	.74286	.75562	.76904	.78010	.79218	.80256	.81210
0.09	.47180	.49970	.52552	.55402	.58110	.60660	.62870	.64946	.66858	.68674	.70476	.72204	.73704	.74940	.76160	.77456	.78530	.79710	.80708	.81644
0.10	.50326	.52768	.55012	.57530	.59978	.62322	.64344	.66222	.68008	.69704	.71402	.73008	.74448	.75646	.76810	.78048	.79062	.80214	.81182	.82102
0.11	.53354	.55484	.57410	.59634	.61788	.63880	.65746	.67446	.69118	.70700	.72298	.73820	.75190	.76340	.77436	.78630	.79604	.80704	.81650	.82558
0.12	.55720	.57620	.59338	.61338	.63288	.65202	.66942	.68510	.70062	.71546	.73070	.74512	.75804	.76904	.77956	.79120	.80054	.81120	.82030	.82896
0.13	.58024	.59718	.61250	.63022	.64824	.66572	.68154	.69638	.71050	.72440	.73894	.75270	.76486	.77550	.78558	.79684	.80572	.81610	.82492	.83332
0.14	.60090	.61636	.62982	.64574	.66142	.67720	.69188	.70570	.71922	.73224	.74600	.75938	.77088	.78094	.79072	.80148	.81002	.82004	.82846	.83674
0.15	.62106	.63502	.64680	.66090	.67530	.68974	.70310	.71570	.72820	.74048	.75328	.76610	.77722	.78678	.79616	.80644	.81456	.82424	.83234	.84030
0.16	.64160	.65432	.66448	.67702	.69008	.70306	.71536	.72692	.73856	.74990	.76188	.77414	.78428	.79332	.80228	.81188	.81978	.82904	.83678	.84434
0.17	.65884	.67040	.67946	.69068	.70216	.71426	.72582	.73664	.74752	.75802	.76936	.78102	.79058	.79924	.80782	.81702	.82454	.83344	.84080	.84806
0.18	.67398	.68472	.69300	.70296	.71336	.72416	.73482	.74488	.75512	.76500	.77560	.78652	.79570	.80398	.81218	.82102	.82816	.83666	.84324	.85048
0.19	.69040	.70020	.70760	.71644	.72594	.73562	.74548	.75460	.76400	.77306	.78298	.79318	.80180	.80968	.81758	.82588	.83262	.84076	.84774	.85458
0.20	.70462	.71340	.72024	.72806	.73664	.74514	.75386	.76246	.77120	.77956	.78878	.79856	.80692	.81442	.82172	.82994	.83642	.84424	.85106	.85780

Powers of $CM(Ref) - V$ Sequential test against Weibull for n = 30

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.17212	.27694	.35598	.42128	.47414	.52056	.56506	.60522	.63740	.66298	.68842	.71288	.73512	.75428	.77140	.78694	.80056	.81274	.82534
0.02	.16088	.28972	.37140	.43576	.49120	.53530	.57514	.61366	.64856	.67810	.69894	.72136	.74294	.76314	.77998	.79404	.80872	.82046	.83144	.84260
0.03	.25628	.36086	.42884	.48422	.53282	.57140	.60748	.64216	.67362	.69898	.72004	.73990	.75930	.77822	.79378	.80782	.82048	.83116	.84138	.85100
0.04	.33968	.42048	.47664	.52332	.56590	.60038	.63244	.66418	.69296	.71856	.73814	.75446	.77246	.78988	.80440	.81736	.82938	.83982	.84916	.85822
0.05	.40168	.46822	.51604	.55612	.59376	.62454	.65398	.68278	.70938	.73112	.74960	.76672	.78366	.80012	.81380	.82596	.83734	.84680	.85600	.86536
0.06	.44960	.50638	.54772	.58274	.61650	.64446	.67156	.69790	.72262	.74288	.76012	.77596	.79106	.80774	.82082	.83230	.84320	.85234	.86126	.87012
0.07	.49440	.54244	.57722	.60742	.63788	.66326	.68752	.71196	.73468	.75388	.76996	.78482	.80000	.81526	.82778	.83866	.84874	.85756	.86616	.87464
0.08	.53072	.57174	.60192	.62888	.65618	.67944	.70158	.72380	.74504	.76522	.77840	.79230	.80648	.82092	.83270	.84332	.85314	.86172	.87010	.87812
0.09	.56220	.59794	.62450	.64814	.67260	.69394	.71424	.73462	.75446	.77154	.78584	.79932	.81260	.82662	.83774	.84798	.85732	.86588	.87374	.88144
0.10	.59386	.62508	.64838	.66892	.69042	.70942	.72790	.74600	.76440	.78012	.79320	.80586	.81844	.83196	.84250	.85244	.86128	.86938	.87722	.88470
0.11	.61830	.64632	.66716	.68564	.70470	.72244	.73936	.75592	.77312	.78790	.80022	.81226	.82438	.83700	.84710	.85672	.86488	.87274	.88032	.88756
0.12	.64208	.66696	.68518	.70158	.71866	.73440	.74954	.76514	.78096	.79466	.80832	.81768	.82910	.84136	.85110	.86034	.86816	.87580	.88316	.89016
0.13	.66312	.68538	.70144	.71580	.73152	.74572	.75956	.77402	.78846	.80134	.81230	.82284	.83382	.84560	.85490	.86378	.87134	.87882	.88594	.89274
0.14	.68366	.70360	.71744	.73008	.74394	.75664	.76940	.78278	.79628	.80834	.81840	.82848	.83886	.84982	.85880	.86750	.87434	.88152	.88840	.89494
0.15	.70220	.72024	.73244	.74370	.75602	.76752	.77930	.79140	.80346	.81490	.82426	.83370	.84360	.85402	.86256	.87072	.87752	.88446	.89112	.89746
0.16	.72116	.73730	.74808	.75786	.76872	.77890	.78952	.80048	.81160	.82234	.83072	.83938	.84860	.85840	.86638	.87410	.88058	.88728	.89346	.89954
0.17	.73762	.75230	.76192	.77062	.77990	.78888	.79878	.80848	.81870	.82862	.83646	.84460	.85332	.86260	.87008	.87754	.88386	.89018	.89650	.90236
0.18	.75368	.76702	.77548	.78310	.79144	.79938	.80840	.81712	.82652	.83562	.84312	.85072	.85896	.86770	.87484	.88162	.88796	.89362	.89956	.90516
0.19	.76920	.78124	.78862	.79546	.80294	.80990	.81788	.82582	.83432	.84238	.84924	.85642	.86414	.87238	.87916	.88570	.89158	.89690	.90248	.90786
0.20	.78268	.79382	.80040	.80646	.81302	.81918	.82636	.83362	.84144	.84882	.85530	.86196	.86918	.87666	.88298	.88918	.89478	.89982	.90524	.91032

Table B.6 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Weibull for $n = 35$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.21352	.33962	.42296	.49332	.55032	.60122	.64160	.67900	.71138	.73904	.76104	.77998	.79818	.81514	.83064	.84484	.85782	.86782	.87808
0.02	.19042	.34270	.44000	.50618	.56350	.61096	.65402	.68808	.71978	.74768	.77116	.79034	.80714	.82282	.83784	.85102	.86340	.87506	.88362	.89258
0.03	.31516	.42856	.50508	.56008	.60878	.64906	.68628	.71646	.74464	.76914	.79078	.80788	.82304	.83712	.85112	.86278	.87432	.88468	.89254	.90064
0.04	.40774	.49500	.55650	.60274	.64368	.67876	.71142	.73858	.76402	.78648	.80636	.82212	.83562	.84828	.86124	.87198	.88278	.89354	.89982	.90712
0.05	.47870	.54728	.59790	.63688	.67144	.70170	.73064	.75526	.77818	.79864	.81714	.83166	.84426	.85600	.86834	.87858	.88872	.89814	.90494	.91190
0.06	.53420	.58932	.63154	.66478	.69530	.72152	.74746	.76980	.79060	.80928	.82622	.83982	.85188	.86298	.87424	.88384	.89364	.90252	.90888	.91572
0.07	.57718	.62340	.65900	.68750	.71480	.73816	.76116	.78154	.80084	.81828	.83396	.84630	.85780	.86824	.87902	.88820	.89720	.90560	.91176	.91834
0.08	.61618	.65542	.68606	.71008	.73348	.75404	.77492	.79302	.81064	.82696	.84128	.85264	.86342	.87340	.88368	.89240	.90084	.90898	.91494	.92120
0.09	.64710	.68152	.70876	.72986	.75042	.76856	.78734	.80386	.81970	.83478	.84752	.85812	.86822	.87762	.88756	.89600	.90400	.91176	.91760	.92352
0.10	.67384	.70478	.72858	.74698	.76502	.78102	.79804	.81288	.82720	.84118	.85310	.86318	.87268	.88150	.89108	.89928	.90674	.91426	.91964	.92556
0.11	.69812	.72472	.74512	.76118	.77766	.79188	.80746	.82078	.83410	.84716	.85838	.86786	.87688	.88526	.89446	.90222	.90950	.91668	.92180	.92754
0.12	.72324	.74674	.76428	.77786	.79232	.80480	.81822	.83008	.84200	.85410	.86482	.87314	.88162	.88948	.89818	.90534	.91222	.91914	.92404	.92956
0.13	.74520	.76630	.78154	.79350	.80596	.81670	.82856	.83896	.84984	.86072	.87032	.87828	.88618	.89352	.90172	.90842	.91524	.92170	.92628	.93178
0.14	.76432	.78294	.79636	.80666	.81808	.82742	.83792	.84736	.85712	.86700	.87588	.88334	.89076	.89758	.90532	.91152	.91800	.92430	.92870	.93378
0.15	.78012	.79682	.80870	.81794	.82820	.83684	.84620	.85478	.86342	.87262	.88068	.88758	.89462	.90100	.90830	.91438	.92046	.92650	.93080	.93560
0.16	.79426	.80912	.81978	.82790	.83710	.84498	.85326	.86148	.86958	.87806	.88522	.89154	.89824	.90422	.91112	.91710	.92276	.92860	.93282	.93710
0.17	.80900	.82244	.83184	.83930	.84752	.85440	.86178	.86920	.87642	.88428	.89084	.89668	.90264	.90820	.91466	.92040	.92590	.93140	.93512	.93952
0.18	.82204	.83436	.84232	.84908	.85602	.86198	.86882	.87564	.88222	.88944	.89530	.90054	.90606	.91124	.91738	.92284	.92822	.93332	.93692	.94128
0.19	.83534	.84632	.85344	.85954	.86534	.87082	.87650	.88266	.88852	.89538	.90074	.90542	.91044	.91546	.92106	.92588	.93088	.93564	.93904	.94330
0.20	.84776	.85758	.86364	.86882	.87402	.87868	.88340	.88900	.89440	.90058	.90546	.90958	.91426	.91898	.92426	.92870	.93322	.93780	.94106	.94504

Powers of $CM(Ref) - V$ Sequential test against Weibull for $n = 40$

$CM(R)$ α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.26494	.41186	.51322	.58650	.64604	.69072	.72766	.76416	.79032	.81228	.83214	.84972	.86516	.87916	.89072	.90232	.91032	.91870	.92638
0.02	.23386	.41222	.51950	.59724	.65470	.70258	.73928	.76954	.79904	.82034	.83848	.85510	.86984	.88284	.89524	.90494	.91480	.92182	.92918	.93502
0.03	.37040	.50024	.58414	.64608	.69388	.73482	.76636	.79282	.81870	.83772	.85348	.86830	.88174	.89346	.90460	.91316	.92202	.92834	.93512	.94132
0.04	.47062	.56884	.63468	.68526	.72492	.75950	.78732	.81038	.83310	.84984	.86412	.87764	.88980	.90068	.91100	.91900	.92710	.93298	.93938	.94512
0.05	.54020	.61920	.67298	.71386	.74812	.77856	.80306	.82334	.84392	.85886	.87200	.88440	.89578	.90584	.91540	.92286	.93050	.93594	.94196	.94744
0.06	.59150	.65566	.70126	.73658	.76578	.79294	.81498	.83302	.85194	.86584	.87784	.88940	.90020	.90966	.91860	.92572	.93304	.93832	.94396	.94928
0.07	.64322	.69514	.73090	.75998	.78450	.80778	.82748	.84386	.86064	.87328	.88422	.89498	.90516	.91382	.92220	.92908	.93602	.94116	.94644	.95146
0.08	.68560	.72822	.75714	.78174	.80222	.82234	.83896	.85536	.86874	.88016	.89050	.90020	.90966	.91790	.92574	.93212	.93862	.94352	.94862	.95330
0.09	.71724	.75360	.77760	.79866	.81654	.83420	.84908	.86210	.87588	.88612	.89564	.90498	.91380	.92148	.92898	.93512	.94158	.94564	.95038	.95466
0.10	.74852	.77900	.79880	.81614	.83132	.84660	.85948	.87080	.88316	.89248	.90108	.90962	.91806	.92496	.93196	.93760	.94366	.94764	.95222	.95654
0.11	.77480	.80030	.81654	.83078	.84388	.85724	.86844	.87846	.88968	.89808	.90588	.91396	.92168	.92796	.93446	.93972	.94552	.94938	.95368	.95760
0.12	.79412	.81660	.83042	.84280	.85406	.86584	.87562	.88484	.89474	.90270	.90988	.91718	.92442	.93016	.93634	.94134	.94694	.95064	.95490	.95872
0.13	.81088	.83018	.84204	.85318	.86320	.87350	.88242	.89054	.90006	.90748	.91414	.92104	.92760	.93296	.93890	.94362	.94890	.95246	.95644	.96010
0.14	.82736	.84408	.85410	.86344	.87230	.88116	.88910	.89626	.90498	.91160	.91776	.92422	.93028	.93546	.94110	.94556	.95052	.95382	.95758	.96104
0.15	.84014	.85560	.86438	.87234	.88042	.88832	.89576	.90234	.91028	.91636	.92162	.92752	.93292	.93786	.94320	.94748	.95220	.95534	.95892	.96232
0.16	.85368	.86706	.87494	.88212	.88916	.89606	.90264	.90850	.91564	.92088	.92574	.93104	.93584	.94040	.94542	.94962	.95398	.95684	.96034	.96350
0.17	.86480	.87708	.88402	.89036	.89642	.90272	.90878	.91402	.92052	.92558	.92998	.93478	.93910	.94318	.94778	.95176	.95574	.95844	.96176	.96478
0.18	.87510	.88622	.89224	.89766	.90318	.90878	.91404	.91872	.92458	.92932	.93304	.93766	.94148	.94546	.94970	.95360	.95736	.95986	.96304	.96598
0.19	.88408	.89444	.89972	.90446	.90922	.91414	.91898	.92320	.92856	.93292	.93634	.94052	.94434	.94816	.95202	.95578	.95916	.96146	.96466	.96754
0.20	.89314	.90292	.90770	.91190	.91608	.92040	.92446	.92800	.93282	.93668	.93996	.94388	.94750	.95102	.95450	.95784	.96086	.96302	.96594	.96858

Table B.6 (Continued)

Powers of $CM(Ref) - V$ Sequential test against Weibull for $n = 45$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.28598	.44386	.55946	.63598	.69270	.74346	.78120	.80526	.83276	.85192	.86974	.88266	.89532	.90766	.91782	.92540	.93308	.94114	.94780
0.02	.28862	.46670	.57404	.65552	.71282	.75550	.79386	.82392	.84300	.86448	.87906	.89352	.90358	.91350	.92336	.93160	.93824	.94480	.95176	.95702
0.03	.43678	.56332	.64178	.70534	.75062	.78660	.81848	.84392	.86026	.87864	.89192	.90438	.91318	.92254	.93120	.93816	.94436	.95012	.95622	.96100
0.04	.53888	.63356	.69276	.74222	.77968	.81024	.83742	.85950	.87376	.89002	.90212	.91318	.92058	.92890	.93658	.94274	.94834	.95328	.95892	.96344
0.05	.61276	.68508	.73196	.77194	.80226	.82766	.85156	.87086	.88316	.89724	.90830	.91864	.92544	.93320	.94034	.94618	.95134	.95602	.96144	.96558
0.06	.66868	.72472	.76082	.79410	.81966	.84132	.86214	.87898	.89028	.90312	.91354	.92292	.92922	.93670	.94354	.94870	.95346	.95808	.96334	.96710
0.07	.71428	.75974	.78818	.81512	.83592	.85462	.87272	.88770	.89806	.90940	.91870	.92724	.93290	.94014	.94642	.95140	.95602	.96004	.96522	.96878
0.08	.74748	.78476	.80854	.83164	.84890	.86474	.88058	.89386	.90346	.91404	.92262	.93080	.93592	.94274	.94886	.95346	.95796	.96180	.96684	.97000
0.09	.77798	.80964	.82876	.84752	.86204	.87526	.88900	.90112	.90992	.91964	.92766	.93516	.93968	.94612	.95162	.95590	.96016	.96348	.96818	.97116
0.10	.80556	.83238	.84782	.86282	.87530	.88680	.89866	.90900	.91632	.92472	.93186	.93868	.94310	.94902	.95408	.95786	.96180	.96504	.96934	.97226
0.11	.82546	.84902	.86234	.87464	.88540	.89556	.90588	.91498	.92150	.92888	.93504	.94146	.94540	.95058	.95556	.95932	.96290	.96612	.97034	.97312
0.12	.84196	.86284	.87442	.88464	.89386	.90280	.91194	.92022	.92606	.93272	.93826	.94430	.94788	.95310	.95730	.96084	.96440	.96742	.97134	.97406
0.13	.85886	.87666	.88626	.89464	.90240	.90976	.91760	.92462	.92986	.93576	.94078	.94658	.94996	.95470	.95864	.96214	.96546	.96836	.97236	.97496
0.14	.87392	.88928	.89700	.90386	.91034	.91676	.92352	.92962	.93434	.93970	.94426	.94940	.95232	.95686	.96038	.96360	.96660	.96932	.97308	.97556
0.15	.88494	.89896	.90556	.91168	.91736	.92288	.92830	.93376	.93818	.94300	.94722	.95156	.95444	.95852	.96184	.96502	.96782	.97036	.97396	.97642
0.16	.89442	.90706	.91.46	.91792	.92290	.92772	.93268	.93762	.94156	.94584	.94982	.95370	.95644	.96042	.96346	.96648	.96922	.97172	.97512	.97744
0.17	.90480	.91570	.92070	.92492	.92890	.93330	.93764	.94196	.94510	.94898	.95272	.95596	.95880	.96224	.96514	.96806	.97074	.97304	.97618	.97840
0.18	.91254	.92240	.92708	.93078	.93440	.93808	.94220	.94620	.94912	.95240	.95566	.95830	.96046	.96390	.96668	.96946	.97206	.97432	.97730	.97934
0.19	.91900	.92814	.93230	.93542	.93854	.94192	.94556	.94912	.95178	.95478	.95778	.96020	.96228	.96548	.96802	.97076	.97312	.97560	.97780	.97980
0.20	.92642	.93456	.93834	.94106	.94380	.94674	.94978	.95316	.95530	.95790	.96066	.96274	.96462	.96758	.96992	.97246	.97450	.97628	.97864	.98078

Powers of $CM(Ref) - V$ Sequential test against Weibull for $n = 50$

$CM(R)$ α V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.31690	.50230	.61260	.69830	.75948	.80192	.83262	.85846	.87916	.90008	.91082	.92168	.93148	.93806	.94374	.94894	.95630	.96008	.96524
0.02	.32892	.51686	.63484	.70956	.77108	.81338	.84458	.86756	.88794	.90362	.91916	.92782	.93670	.94458	.94996	.95454	.95882	.96416	.96816	.97154
0.03	.49052	.62134	.70578	.76054	.80604	.83904	.86542	.88502	.90182	.91534	.92836	.93594	.94384	.95048	.95520	.95914	.96298	.96774	.97148	.97466
0.04	.58936	.68458	.74894	.79286	.82938	.85602	.87868	.89626	.91040	.92234	.93458	.94114	.94804	.95424	.95848	.96206	.96558	.97006	.97370	.97664
0.05	.65960	.73232	.78266	.81754	.84832	.87052	.88990	.90602	.91818	.92862	.93908	.94502	.95140	.95736	.96080	.96426	.96774	.97206	.97542	.97822
0.06	.71384	.77122	.81066	.83968	.86620	.88444	.90046	.91440	.92466	.93408	.94358	.94918	.95460	.96016	.96342	.96668	.97000	.97402	.97710	.97960
0.07	.75688	.80300	.83432	.85888	.88056	.89596	.90926	.92186	.93096	.93926	.94746	.95270	.95754	.96298	.96594	.96874	.97186	.97578	.97842	.98074
0.08	.79168	.82812	.85384	.87402	.89158	.90480	.91660	.92756	.93598	.94360	.95082	.95530	.95970	.96478	.96754	.97014	.97302	.97666	.97932	.98156
0.09	.81904	.84994	.87116	.88742	.90192	.91304	.92360	.93280	.94026	.94692	.95350	.95720	.96112	.96546	.96854	.97082	.97354	.97720	.97982	.98186
0.10	.84054	.86720	.88488	.89798	.91006	.91940	.92872	.93650	.94330	.94950	.95586	.95924	.96298	.96742	.96992	.97210	.97474	.97824	.98076	.98292
0.11	.86000	.88312	.89754	.90880	.91932	.92730	.93444	.94114	.94736	.95276	.95812	.96110	.96454	.96872	.97108	.97320	.97560	.97890	.98124	.98328
0.12	.87544	.89584	.90830	.91774	.92628	.93306	.93948	.94540	.95062	.95544	.96030	.96316	.96628	.96988	.97202	.97404	.97634	.97954	.98184	.98380
0.13	.88862	.90648	.91720	.92518	.93254	.93842	.94416	.94956	.95416	.95818	.96260	.96514	.96808	.97156	.97362	.97548	.97774	.98076	.98278	.98444
0.14	.89952	.91576	.92482	.93142	.93804	.94308	.94818	.95258	.95666	.96044	.96472	.96670	.96950	.97264	.97454	.97630	.97834	.98124	.98314	.98478
0.15	.91056	.92456	.93214	.93752	.94310	.94766	.95256	.95644	.96010	.96338	.96736	.96890	.97154	.97468	.97636	.97786	.97994	.98266	.98444	.98592
0.16	.92018	.93268	.93946	.94398	.94810	.95186	.95600	.95948	.96272	.96560	.96902	.97044	.97282	.97554	.97724	.97862	.98054	.98322	.98494	.98622
0.17	.92820	.93920	.94512	.94912	.95264	.95598	.95938	.96258	.96542	.96786	.97092	.97224	.97432	.97668	.97838	.97972	.98154	.98358	.98554	.98680
0.18	.93614	.94596	.95084	.95440	.95712	.95990	.96292	.96546	.96798	.97024	.97290	.97412	.97596	.97824	.97990	.98120	.98288	.98504	.98650	.98752
0.19	.94146	.95038	.95466	.95798	.96032	.96246	.96516	.96738	.96978	.97202	.97430	.97528	.97706	.97930	.98086	.98216	.98376	.98572	.98706	.98802
0.20	.94816	.95626	.96010	.96286	.96502	.96686	.96892	.97098	.97268	.97480	.97682	.97760	.97932	.98140	.98288	.98404	.98550	.98722	.98810	.98958

Table B.6 (Continued)

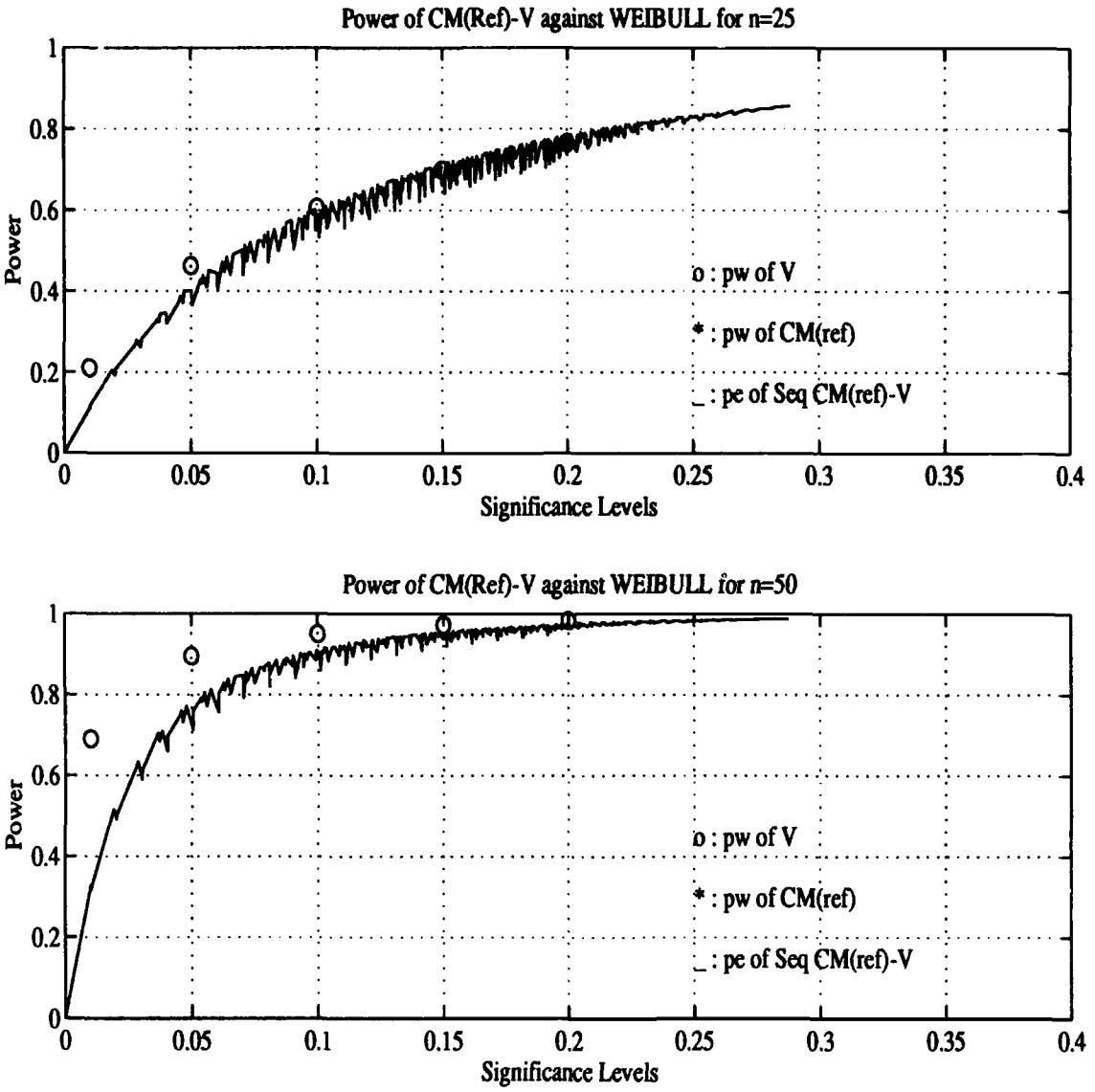

Figure E.5 Power comparisons of $CM(Ref) - V$ against Weibull

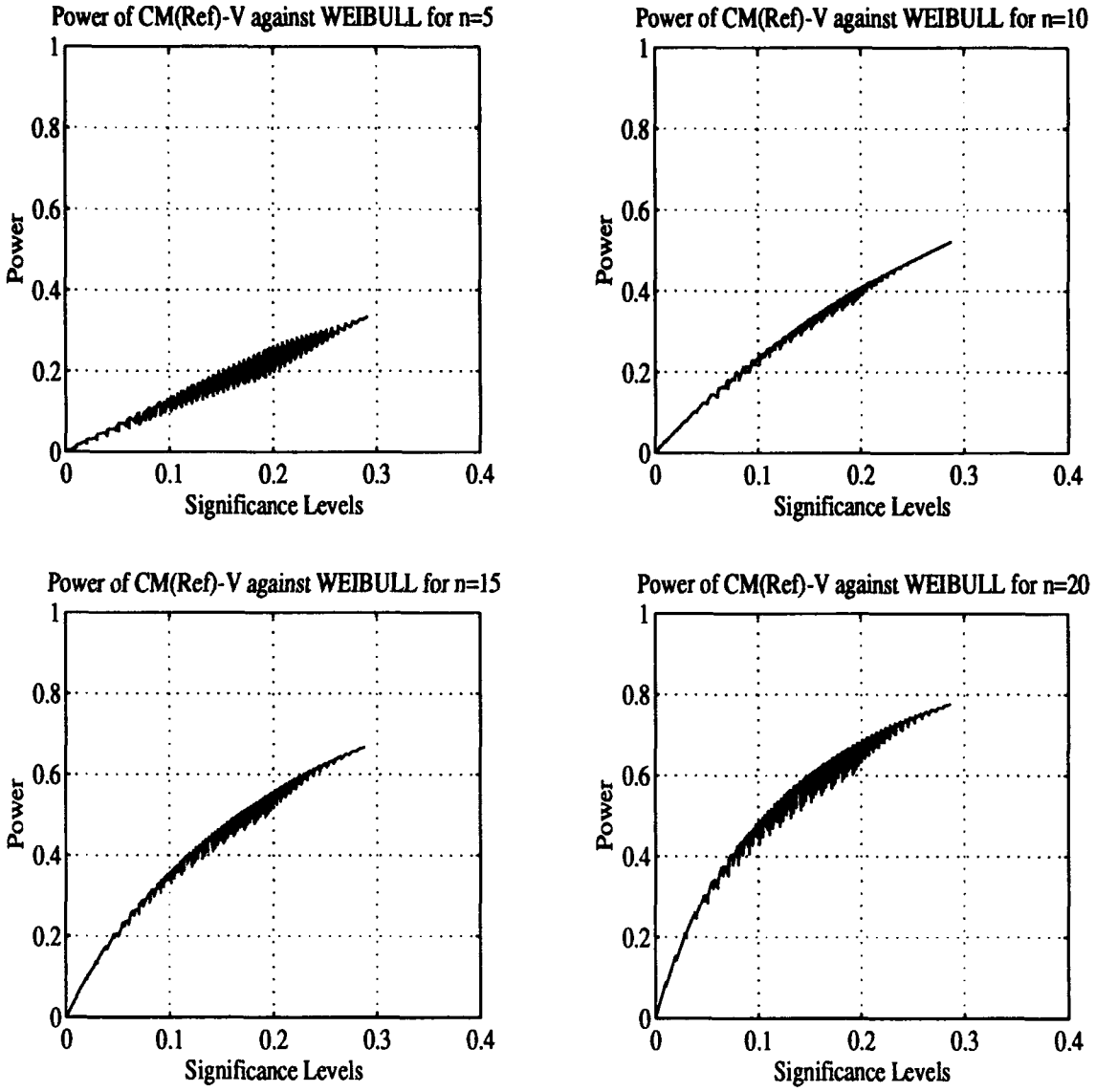

Figure E.5 (Continued)

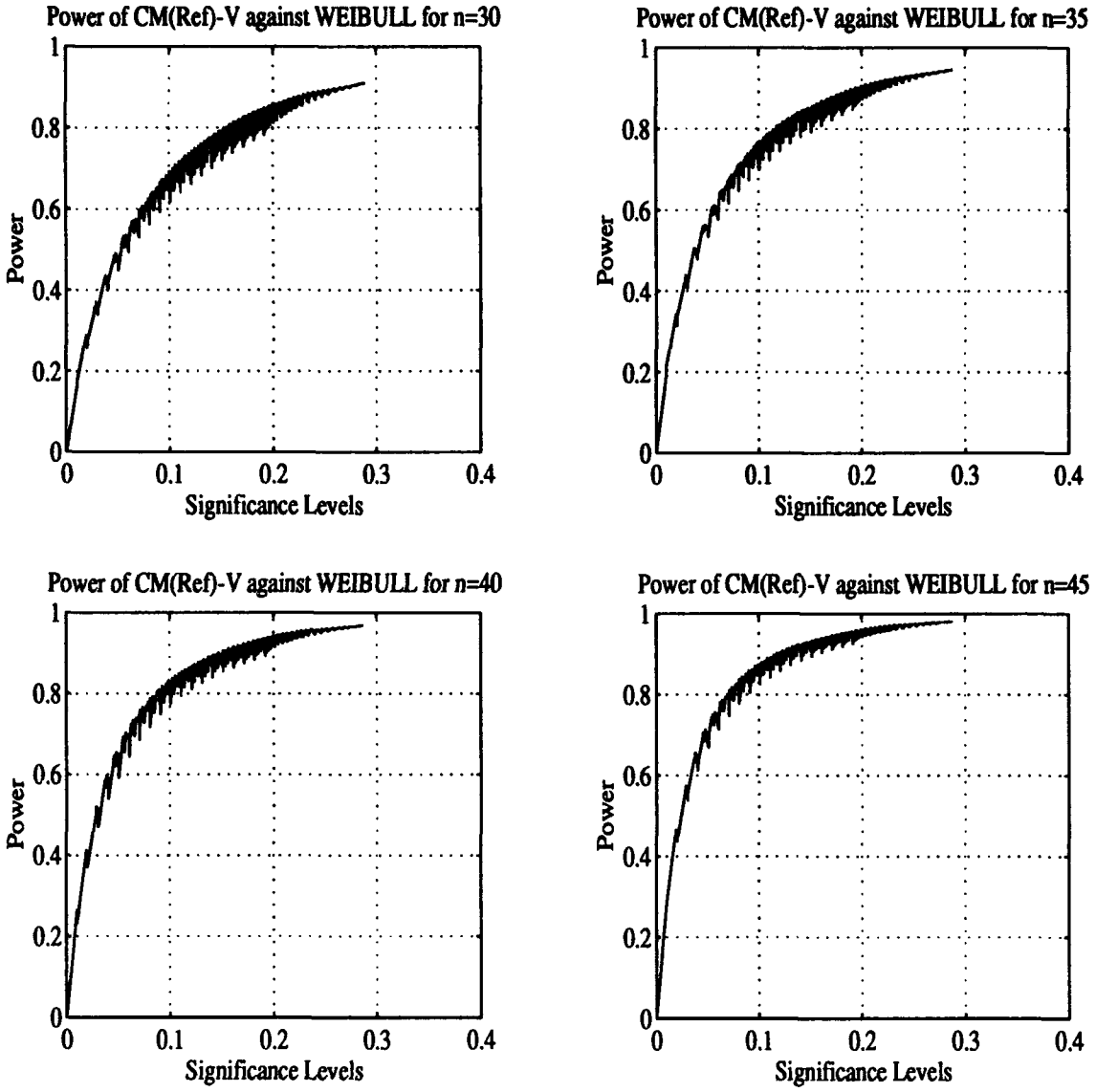

Figure E.5 (Continued)

Appendix F. Power tables of KS -- V

This appendix includes the power results of $KS - V$ Sequential Test in the same manner described in the last two appendices. On the graphs, "*" represents the power of the KS test while "_" represents the power level of the $KS - V$ sequential test. "o" represents the power of the V test.

Powers of $KS - V$ Sequential test against Normal for $n = 5$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00762	.01470	.02346	.03086	.03942	.04832	.05740	.06680	.07628	.08584	.09522	.10492	.11466	.12470	.13402	.14406	.15366	.16370	.17356
0.02	.01338	.02062	.02730	.03550	.04268	.05096	.05956	.06816	.07718	.08634	.09560	.10472	.11422	.12378	.13344	.14244	.15228	.16162	.17144	.18112
0.03	.02664	.03342	.03968	.04744	.05422	.06222	.07044	.07874	.08760	.09658	.10566	.11450	.12372	.13298	.14240	.15114	.16082	.16996	.17948	.18896
0.04	.03944	.04576	.05160	.05906	.06552	.07326	.08120	.08924	.09788	.10670	.11554	.12412	.13316	.14218	.15142	.15992	.16942	.17836	.18770	.19700
0.05	.05252	.05820	.06374	.07078	.07694	.08448	.09232	.10012	.10858	.11698	.12568	.13406	.14286	.15168	.16066	.16896	.17814	.18696	.19594	.20500
0.06	.06638	.07150	.07664	.08336	.08924	.09654	.10406	.11152	.11966	.12782	.13638	.14452	.15310	.16164	.17026	.17820	.18718	.19570	.20450	.21330
0.07	.07844	.08306	.08782	.09422	.09988	.10696	.11408	.12136	.12926	.13720	.14560	.15344	.16182	.17016	.17862	.18624	.19506	.20330	.21188	.22046
0.08	.09026	.09446	.09888	.10496	.11032	.11712	.12392	.13102	.13868	.14630	.15450	.16214	.17030	.17832	.18662	.19404	.20266	.21074	.21908	.22756
0.09	.10186	.10572	.10984	.11566	.12090	.12730	.13384	.14072	.14804	.15558	.16362	.17104	.17898	.18674	.19494	.20222	.21050	.21848	.22658	.23490
0.10	.11466	.11816	.12186	.12742	.13238	.13838	.14470	.15130	.15844	.16572	.17346	.18074	.18846	.19600	.20376	.21090	.21896	.22678	.23440	.24258
0.11	.12790	.13100	.13432	.13956	.14418	.14976	.15566	.16196	.16872	.17564	.18306	.18988	.19740	.20474	.21222	.21906	.22692	.23460	.24226	.24996
0.12	.14146	.14422	.14722	.15206	.15644	.16174	.16718	.17324	.17968	.18648	.19372	.20022	.20752	.21462	.22182	.22842	.23604	.24356	.25096	.25844
0.13	.15452	.15700	.15970	.16428	.16838	.17348	.17862	.18442	.19060	.19704	.20396	.21028	.21736	.22424	.23130	.23764	.24506	.25236	.25944	.26680
0.14	.16660	.16872	.17124	.17552	.17942	.18434	.18926	.19490	.20092	.20704	.21380	.21994	.22674	.23330	.24010	.24634	.25354	.26064	.26762	.27476
0.15	.17836	.18016	.18238	.18644	.19014	.19488	.19960	.20502	.21078	.21658	.22304	.22884	.23530	.24152	.24816	.25420	.26124	.26822	.27496	.28204
0.16	.19110	.19272	.19476	.19842	.20200	.20642	.21090	.21596	.22154	.22716	.23332	.23888	.24510	.25102	.25740	.26312	.27010	.27674	.28328	.29014
0.17	.20440	.20566	.20742	.21074	.21406	.21818	.22246	.22724	.23264	.23812	.24404	.24942	.25548	.26108	.26730	.27288	.27964	.28606	.29242	.29900
0.18	.21626	.21736	.21886	.22192	.22498	.22876	.23288	.23748	.24248	.24768	.25336	.25862	.26444	.26976	.27582	.28130	.28786	.29410	.30028	.30680
0.19	.22854	.22944	.23082	.23354	.23632	.23992	.24382	.24822	.25292	.25788	.26334	.26844	.27396	.27912	.28496	.29028	.29666	.30270	.30866	.31502
0.20	.24036	.24112	.24242	.24480	.24736	.25062	.25426	.25848	.26296	.26778	.27304	.27786	.28316	.28814	.29384	.29900	.30530	.31122	.31700	.32324

Powers of $KS - V$ Sequential test against Normal for $n = 10$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00922	.01816	.02708	.03528	.04428	.05244	.06090	.07030	.07936	.08802	.09812	.10902	.11928	.13074	.14074	.15060	.16088	.17174	.18258
0.02	.02620	.03314	.04056	.04808	.05528	.06314	.07056	.07786	.08628	.09468	.10268	.11216	.12232	.13196	.14256	.15206	.16128	.17088	.18128	.19152
0.03	.05014	.05564	.06140	.06784	.07426	.08118	.087[illegible]	.09412	.10186	.10934	.11684	.12566	.13500	.14410	.15408	.16324	.17190	.18104	.19090	.20070
0.04	.07410	.07840	.08312	.08846	.09398	.09998	.10566	.11168	.11862	.12548	.13242	.14060	.14938	.15776	.16730	.17618	.18432	.19384	.20304	.21130
0.05	.09618	.09986	.10388	.10860	.11336	.11886	.12386	.12944	.13572	.14186	.14814	.15584	.16394	.17162	.18056	.18876	.19652	.20454	.21310	.22176
0.06	.11802	.12130	.12488	.12862	.13272	.13764	.14224	.14730	.15312	.15856	.16428	.17152	.17898	.18610	.19436	.20200	.20930	.21666	.22472	.23294
0.07	.14090	.14386	.14654	.15006	.15366	.15812	.16214	.16682	.17198	.17702	.18222	.18888	.19574	.20216	.20972	.21662	.22360	.23062	.23824	.24602
0.08	.16178	.16458	.16690	.16994	.17304	.17686	.18046	.18480	.18922	.19384	.19860	.20462	.21098	.21688	.22396	.23038	.23684	.24350	.25046	.25790
0.09	.18076	.18350	.18560	.18822	.19086	.19436	.19762	.20142	.20528	.20966	.21406	.21970	.22562	.23122	.23798	.24402	.25014	.25634	.26300	.26976
0.10	.19750	.20010	.20204	.20438	.20678	.20996	.21282	.21624	.21992	.22402	.22816	.23326	.23868	.24382	.25034	.25594	.26152	.26736	.27364	.28006
0.11	.21656	.21914	.22086	.22306	.22516	.22794	.23056	.23354	.23692	.24080	.24460	.24922	.25424	.25910	.26520	.27024	.27548	.28096	.28690	.29290
0.12	.23272	.23524	.23688	.23884	.24078	.24338	.24580	.24848	.25156	.25516	.25852	.26282	.26754	.27198	.27774	.28250	.28754	.29344	.29804	.30372
0.13	.24924	.25166	.25316	.25496	.25676	.25910	.26138	.26376	.26650	.26978	.27286	.27692	.28134	.28544	.29082	.29532	.29986	.30466	.30990	.31516
0.14	.26682	.26920	.27066	.27228	.27398	.27598	.27794	.28002	.28256	.28550	.28826	.29198	.29616	.30004	.30496	.30912	.31322	.31772	.32270	.32764
0.15	.28276	.28514	.28656	.28798	.28948	.29128	.29300	.29492	.29732	.30004	.30250	.30584	.30976	.31322	.31780	.32178	.32570	.32984	.33460	.33920
0.16	.29724	.29960	.30102	.30234	.30376	.30538	.30692	.30860	.31068	.31332	.31564	.31882	.32256	.32590	.33022	.33392	.33764	.34152	.34610	.35044
0.17	.31212	.31444	.31576	.31704	.31836	.31976	.32118	.32270	.32462	.32706	.32918	.33210	.33560	.33864	.34262	.34610	.34966	.35340	.35768	.36180
0.18	.32660	.32886	.33016	.33138	.33266	.33396	.33528	.33666	.33828	.34058	.34258	.34530	.34860	.35148	.35524	.35840	.36174	.36532	.36940	.37334
0.19	.34050	.34274	.34402	.34522	.34638	.34758	.34870	.34988	.35140	.35350	.35534	.35796	.36102	.36364	.36722	.37030	.37350	.37690	.38076	.38436
0.20	.35474	.35692	.35816	.35934	.36046	.36156	.36260	.36366	.36504	.36694	.36848	.37096	.37374	.37622	.37966	.38246	.38552	.38872	.39232	.39572

Table F.1 Power tables of $KS - V$ against Normal ditribution

Powers of $KS - V$ Sequential test against Normal for $n = 15$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00872	.01810	.02832	.03862	.04944	.05940	.06918	.07902	.09078	.10240	.11350	.12416	.13658	.14902	.16142	.17308	.18504	.19682	.20900
0.02	.04438	.05094	.05824	.06664	.07514	.08372	.09202	.10036	.10884	.11890	.12890	.13866	.14788	.15902	.16978	.18118	.19158	.20230	.21328	.22456
0.03	.08464	.09016	.09592	.10282	.10984	.11704	.12406	.13130	.13842	.14696	.15580	.16456	.17274	.18302	.19278	.20296	.21232	.22196	.23202	.24216
0.04	.12164	.12654	.13138	.13722	.14312	.14894	.15528	.16150	.16752	.17498	.18286	.19040	.19772	.20668	.21554	.22486	.23332	.24186	.25112	.26044
0.05	.15252	.15710	.16140	.16668	.17188	.17674	.18210	.18774	.19298	.19960	.20670	.21342	.22020	.22844	.23648	.24492	.25266	.26042	.26886	.27750
0.06	.18214	.18654	.19042	.19516	.19952	.20374	.20834	.21340	.21810	.22388	.23034	.23632	.24252	.24990	.25722	.26508	.27222	.27942	.28662	.29494
0.07	.21062	.21490	.21848	.22278	.22664	.23044	.23426	.23864	.24292	.24794	.25356	.25904	.26470	.27126	.27796	.28504	.29162	.29828	.30514	.31246
0.08	.23454	.23868	.24208	.24612	.24968	.25312	.25662	.26072	.26440	.26890	.27400	.27890	.28398	.28994	.29618	.30266	.30864	.31470	.32124	.32812
0.09	.25880	.26282	.26604	.26984	.27308	.27600	.27914	.28268	.28582	.28988	.29458	.29900	.30362	.30896	.31470	.32066	.32602	.33176	.33784	.34418
0.10	.28314	.28704	.29016	.29374	.29676	.29934	.30212	.30530	.30814	.31184	.31602	.31998	.32424	.32878	.33380	.33912	.34394	.34906	.35462	.36052
0.11	.30480	.30856	.31158	.31496	.31776	.32014	.32264	.32568	.32828	.33158	.33548	.33908	.34302	.34706	.35156	.35644	.36082	.36544	.37040	.37584
0.12	.32572	.32932	.33222	.33546	.33814	.34038	.34272	.34536	.34766	.35070	.35426	.35768	.36132	.36496	.36920	.37368	.37762	.38180	.38624	.39116
0.13	.34492	.34844	.35128	.35446	.35702	.35910	.36122	.36354	.36556	.36848	.37168	.37476	.37794	.38128	.38524	.38924	.39290	.39678	.40082	.40536
0.14	.36290	.36638	.36912	.37222	.37472	.37666	.37864	.38078	.38272	.38528	.38824	.39094	.39390	.39692	.40042	.40414	.40786	.41116	.41490	.41918
0.15	.38032	.38368	.38636	.38936	.39176	.39366	.39558	.39758	.39928	.40172	.40436	.40692	.40956	.41234	.41560	.41914	.42248	.42574	.42936	.43340
0.16	.39828	.40150	.40408	.40698	.40928	.41098	.41282	.41470	.41628	.41850	.42098	.42330	.42566	.42822	.43108	.43440	.43744	.44044	.44380	.44768
0.17	.41498	.41810	.42058	.42342	.42564	.42726	.42894	.43078	.43230	.43430	.43654	.43872	.44092	.44326	.44598	.44896	.45182	.45484	.45766	.46126
0.18	.43086	.43392	.43632	.43910	.44124	.44276	.44440	.44622	.44766	.44956	.45164	.45358	.45564	.45786	.46038	.46312	.46576	.46832	.47110	.47446
0.19	.44588	.44882	.45118	.45388	.45598	.45746	.45908	.46074	.46212	.46392	.46580	.46752	.46940	.47148	.47378	.47628	.47864	.48098	.48358	.48672
0.20	.46096	.46384	.46606	.46868	.47072	.47218	.47374	.47526	.47660	.47824	.47990	.48154	.48322	.48520	.48728	.48956	.49180	.49400	.49642	.49940

Powers of $KS - V$ Sequential test against Normal for $n = 20$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01098	.02230	.03492	.04674	.05910	.07250	.08616	.09786	.11092	.12510	.13908	.15406	.16920	.18170	.19486	.20872	.22226	.23704	.25144
0.02	.06786	.07688	.08556	.09540	.10486	.11500	.12572	.13722	.14678	.15742	.16902	.18084	.19342	.20642	.21688	.22820	.24042	.25194	.26488	.27778
0.03	.12376	.13178	.13932	.14730	.15530	.16372	.17278	.18224	.19044	.19950	.20940	.21930	.22984	.24092	.24962	.25930	.26982	.28026	.29160	.30334
0.04	.17184	.17928	.18620	.19316	.20010	.20698	.21456	.22242	.22930	.23722	.24562	.25420	.26344	.27322	.28066	.28912	.29854	.30784	.31812	.32812
0.05	.21400	.22106	.22756	.23394	.23994	.24592	.25268	.25946	.26550	.27230	.27974	.28720	.29534	.30404	.31038	.31770	.32614	.33432	.34376	.35262
0.06	.25104	.25780	.26396	.26980	.27524	.28060	.28692	.29288	.29840	.30416	.31070	.31710	.32440	.33178	.33736	.34584	.35148	.35868	.36696	.37488
0.07	.28496	.29148	.29726	.30268	.30762	.31252	.31802	.32338	.32826	.33328	.33902	.34470	.35106	.35752	.36256	.36848	.37520	.38178	.38934	.39660
0.08	.31756	.32378	.32930	.33432	.33876	.34332	.34834	.35332	.35774	.36220	.36706	.37224	.37774	.38330	.38782	.39314	.39900	.40480	.41148	.41830
0.09	.34912	.35014	.35540	.36026	.36446	.36860	.37316	.37776	.38192	.38596	.39040	.39512	.40000	.40526	.40940	.41428	.41962	.42494	.43106	.43714
0.10	.36944	.37524	.38018	.38466	.38852	.39240	.39658	.40074	.40458	.40838	.41246	.41676	.42118	.42582	.42964	.43414	.43906	.44394	.44948	.45506
0.11	.39204	.39760	.40240	.40670	.41046	.41418	.41804	.42188	.42548	.42908	.43286	.43682	.44086	.44488	.44842	.45264	.45728	.46172	.46676	.47192
0.12	.41470	.42012	.42478	.42882	.43240	.43588	.43958	.44328	.44662	.44990	.45344	.45698	.46056	.46444	.46776	.47160	.47576	.47978	.48420	.48884
0.13	.43518	.44050	.44494	.44884	.45224	.45546	.45900	.46250	.46564	.46874	.47214	.47536	.47858	.48220	.48526	.48892	.49280	.49654	.50064	.50498
0.14	.45662	.46176	.46610	.46986	.47316	.47618	.47960	.48286	.48566	.48860	.49176	.49482	.49786	.50084	.50356	.50690	.51040	.51390	.51764	.52162
0.15	.47630	.48118	.48540	.48910	.49226	.49524	.49850	.50154	.50422	.50702	.51000	.51286	.51544	.51834	.52092	.52404	.52736	.53054	.53400	.53780
0.16	.49564	.50040	.50444	.50796	.51102	.51394	.51708	.51996	.52250	.52514	.52792	.53052	.53290	.53550	.53796	.54078	.54386	.54676	.54984	.55332
0.17	.51270	.51732	.52120	.52462	.52758	.53044	.53350	.53630	.53874	.54122	.54378	.54630	.54862	.55094	.55316	.55586	.55874	.56132	.56408	.56726
0.18	.52738	.53180	.53562	.53890	.54176	.54452	.54752	.55026	.55266	.55504	.55740	.55982	.56204	.56422	.56630	.56884	.57148	.57396	.57654	.57954
0.19	.54448	.54870	.55236	.55548	.55818	.56092	.56378	.56640	.56872	.57102	.57326	.57552	.57762	.57970	.58160	.58400	.58644	.58882	.59126	.59384
0.20	.56050	.56452	.56808	.57112	.57372	.57636	.57918	.58170	.58392	.58604	.58806	.59020	.59222	.59420	.59600	.59822	.60058	.60274	.60494	.60740

Table F.2 (Continued)

Powers of $KS - V$ Sequential test against Normal for n = 25

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01214	.02544	.03850	.05422	.06876	.08346	.09956	.11510	.13000	.14618	.16222	.17920	.19564	.21378	.22998	.24666	.26218	.27796	.29478
0.02	.09826	.10848	.11928	.12946	.14182	.15298	.16436	.17716	.18934	.20086	.21334	.22642	.23976	.25292	.26790	.28084	.29444	.30694	.31926	.33296
0.03	.16868	.17780	.18714	.19570	.20628	.21594	.22568	.23628	.24630	.25578	.26618	.27752	.28898	.30006	.31266	.32348	.33492	.34556	.35604	.36752
0.04	.23284	.24142	.24972	.25728	.26638	.27466	.28208	.29188	.30024	.30808	.31654	.32586	.33570	.34490	.35562	.36476	.37456	.38370	.39234	.40216
0.05	.28390	.29194	.29968	.30652	.31472	.32198	.32890	.33692	.34432	.35114	.35834	.36652	.37492	.38262	.39180	.39964	.40818	.41608	.42362	.43184
0.06	.32766	.33524	.34252	.34888	.35646	.36300	.36924	.37632	.38270	.38866	.39496	.40210	.40946	.41642	.42434	.43140	.43920	.44618	.45266	.45992
0.07	.36510	.37206	.37882	.38494	.39206	.39818	.40390	.41024	.41614	.42164	.42732	.43374	.44006	.44636	.45322	.45930	.46648	.47262	.47826	.48476
0.08	.40050	.40716	.41348	.41932	.42592	.43154	.43686	.44268	.44780	.45270	.45780	.46364	.46920	.47496	.48108	.48640	.49266	.49816	.50328	.50900
0.09	.43186	.43820	.44418	.44966	.45590	.46086	.46584	.47128	.47606	.48058	.48520	.49046	.49562	.50090	.50650	.51124	.51670	.52168	.52622	.53130
0.10	.46032	.46652	.47216	.47728	.48320	.48788	.49254	.49750	.50190	.50600	.51026	.51516	.51994	.52468	.52980	.53414	.53908	.54348	.54758	.55216
0.11	.48920	.49510	.50044	.50532	.51090	.51538	.51958	.52420	.52818	.53208	.53598	.54056	.54466	.54898	.55364	.55752	.56188	.56580	.56950	.57364
0.12	.51278	.51834	.52340	.52806	.53328	.53758	.54156	.54598	.54972	.55332	.55694	.56132	.56512	.56910	.57338	.57716	.58124	.58482	.58824	.59214
0.13	.53524	.54058	.54530	.54976	.55474	.55878	.56270	.56684	.57032	.57366	.57702	.58114	.58478	.58834	.59244	.59578	.59962	.60284	.60590	.60952
0.14	.55626	.56138	.56592	.57016	.57496	.57886	.58244	.58638	.58964	.59278	.59596	.59982	.60316	.60656	.61040	.61352	.61700	.61996	.62280	.62596
0.15	.57616	.58102	.58534	.58946	.59404	.59784	.60124	.60500	.60808	.61094	.61390	.61750	.62068	.62378	.62736	.63028	.63356	.63624	.63898	.64178
0.16	.59584	.60054	.60470	.60864	.61288	.61654	.61976	.62326	.62610	.62884	.63158	.63490	.63784	.64076	.64408	.64680	.64984	.65236	.65486	.65746
0.17	.61322	.61772	.62174	.62548	.62964	.63324	.63630	.63966	.64234	.64500	.64758	.65072	.65350	.65632	.65938	.66196	.66472	.66700	.66940	.67182
0.18	.62872	.63308	.63702	.64066	.64476	.64822	.65124	.65432	.65692	.65944	.66184	.66496	.66756	.67020	.67316	.67562	.67822	.68038	.68256	.68478
0.19	.64568	.64988	.65354	.65698	.66090	.66424	.66714	.66990	.67242	.67478	.67712	.68006	.68258	.68494	.68788	.68992	.69230	.69434	.69636	.69844
0.20	.66036	.66442	.66790	.67122	.67502	.67818	.68098	.68352	.68592	.68824	.69052	.69338	.69578	.69804	.70060	.70274	.70496	.70682	.70876	.71064

Powers of $KS - V$ Sequential test against Normal for n = 30

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01542	.03284	.04986	.06716	.08484	.10312	.12114	.14050	.15908	.17828	.19756	.21544	.23466	.25384	.27132	.28812	.30668	.32384	.34128
0.02	.13870	.15122	.16452	.17768	.19108	.20496	.21826	.23230	.24726	.26098	.27542	.28966	.30302	.31704	.33122	.34444	.35726	.37108	.38570	.40006
0.03	.22060	.23212	.24392	.25558	.26706	.27896	.29026	.30190	.31438	.32604	.33804	.34976	.36074	.37226	.38416	.39534	.40576	.41720	.42908	.44162
0.04	.29564	.30596	.31652	.32658	.33682	.34710	.35696	.36670	.37708	.38716	.39730	.40706	.41626	.42592	.43572	.44472	.45334	.46272	.47256	.48258
0.05	.35312	.36250	.37220	.38130	.39062	.39974	.40846	.41704	.42614	.43490	.44380	.45214	.46016	.46866	.47684	.48470	.49196	.49906	.50850	.51746
0.06	.40010	.40870	.41768	.42604	.43454	.44258	.45018	.45816	.46634	.47408	.48198	.48932	.49618	.50346	.51056	.51750	.52392	.53092	.53842	.54632
0.07	.44114	.44922	.45764	.46556	.47322	.48038	.48724	.49454	.50200	.50894	.51616	.52286	.52882	.53534	.54178	.54788	.55348	.55972	.56616	.57318
0.08	.47684	.48440	.49234	.49970	.50678	.51342	.51988	.52670	.53360	.53992	.54656	.55240	.55792	.56392	.56964	.57510	.57986	.58574	.59140	.59754
0.09	.50846	.51578	.52316	.53008	.53676	.54304	.54884	.55516	.56150	.56740	.57340	.57886	.58384	.58902	.59424	.59914	.60340	.60870	.61374	.61918
0.10	.53904	.54574	.55280	.55940	.56566	.57138	.57676	.58266	.58846	.59378	.59932	.60428	.60872	.61344	.61806	.62268	.62652	.63120	.63586	.64042
0.11	.56660	.57286	.57948	.58560	.59134	.59658	.60174	.60744	.61296	.61774	.62286	.62730	.63130	.63566	.63978	.64384	.64730	.65158	.65564	.65990
0.12	.59046	.59636	.60272	.60850	.61388	.61886	.62376	.62920	.63430	.63886	.64372	.64792	.65170	.65564	.65944	.66320	.66652	.67032	.67406	.67796
0.13	.61330	.61900	.62490	.63044	.63554	.64024	.64496	.65012	.65482	.65924	.66374	.66756	.67108	.67466	.67818	.68156	.68442	.68796	.69160	.69532
0.14	.63482	.64032	.64584	.65100	.65586	.66022	.66466	.66954	.67384	.67814	.68234	.68592	.68930	.69256	.69584	.69894	.70150	.70474	.70784	.71110
0.15	.65422	.65930	.66466	.66944	.67392	.67820	.68248	.68712	.69128	.69534	.69942	.70276	.70594	.70910	.71218	.71508	.71744	.72044	.72332	.72614
0.16	.67408	.67896	.68392	.68830	.69256	.69662	.70066	.70486	.70882	.71256	.71636	.71962	.72262	.72554	.72850	.73120	.73332	.73614	.73866	.74134
0.17	.69046	.69512	.69992	.70408	.70806	.71182	.71572	.71968	.72350	.72710	.73070	.73382	.73674	.73948	.74206	.74446	.74648	.74918	.75146	.75392
0.18	.70664	.71108	.71552	.71940	.72318	.72682	.73060	.73430	.73792	.74138	.74482	.74784	.75054	.75318	.75564	.75790	.75978	.76224	.76436	.76664
0.19	.72270	.72694	.73124	.73490	.73850	.74204	.74564	.74922	.75248	.75574	.75888	.76180	.76436	.76684	.76912	.77120	.77294	.77524	.77716	.77924
0.20	.73698	.74108	.74512	.74852	.75194	.75536	.75866	.76182	.76486	.76796	.77102	.77378	.77628	.77856	.78072	.78264	.78432	.78636	.78820	.79010

Table F.2 (Continued)

Powers of $KS - V$ Sequential test against Normal for $n = 35$

$KS\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01914	.03932	.06124	.08250	.10452	.12756	.14824	.17012	.19236	.21584	.23808	.25930	.28102	.30414	.32614	.34672	.36838	.38822	.40874
0.02	.16208	.17796	.19446	.21132	.22778	.24482	.26198	.27690	.29346	.31038	.32792	.34410	.35974	.37540	.39212	.40850	.42378	.44012	.45486	.47072
0.03	.27712	.29078	.30456	.31876	.33228	.34632	.36000	.37190	.38508	.39854	.41272	.42570	.43806	.45006	.46338	.47578	.48812	.50110	.51244	.52448
0.04	.36098	.37302	.38518	.39752	.40952	.42182	.43346	.44358	.45446	.46570	.47746	.48832	.49840	.50818	.51890	.52942	.53924	.54988	.55908	.56872
0.05	.42680	.43756	.44850	.45932	.46968	.48060	.49094	.49976	.50936	.51948	.52970	.53862	.54732	.55548	.56482	.57382	.58186	.59074	.59830	.60644
0.06	.48176	.49142	.50148	.51122	.52048	.53002	.53932	.54700	.55550	.56412	.57294	.58068	.58830	.59528	.60336	.61090	.61778	.62534	.63170	.63858
0.07	.52378	.53262	.54194	.55106	.55936	.56826	.57656	.58350	.59126	.59912	.60710	.61382	.62054	.62668	.63382	.64042	.64652	.65298	.65854	.66456
0.08	.56282	.57082	.57922	.58748	.59498	.60308	.61074	.61706	.62418	.63122	.63850	.64452	.65052	.65596	.66240	.66810	.67356	.67924	.68422	.68960
0.09	.59508	.60244	.61010	.61792	.62504	.63256	.63952	.64532	.65180	.65850	.66510	.67052	.67600	.68074	.68664	.69162	.69644	.70170	.70612	.71072
0.10	.62328	.63024	.63742	.64474	.65144	.65848	.66494	.67034	.67644	.68274	.68874	.69356	.69868	.70284	.70818	.71272	.71720	.72194	.72590	.73002
0.11	.64956	.65586	.66226	.66888	.67516	.68144	.68746	.69258	.69824	.70416	.70960	.71400	.71860	.72256	.72744	.73144	.73546	.73980	.74324	.74702
0.12	.67334	.67928	.68512	.69132	.69732	.70300	.70848	.71328	.71858	.72408	.72912	.73302	.73742	.74102	.74546	.74914	.75280	.75682	.75984	.76324
0.13	.69738	.70292	.70818	.71386	.71926	.72478	.72990	.73428	.73904	.74410	.74870	.75230	.75622	.75950	.76342	.76676	.76998	.77346	.77654	.77958
0.14	.71912	.72432	.72930	.73460	.73968	.74478	.74932	.75348	.75784	.76264	.76686	.77012	.77378	.77684	.78036	.78332	.78634	.78960	.79244	.79510
0.15	.73698	.74184	.74646	.75136	.75612	.76092	.76516	.76908	.77302	.77746	.78140	.78450	.78776	.79066	.79392	.79676	.79944	.80254	.80522	.80780
0.16	.75248	.75704	.76136	.76596	.77042	.77476	.77874	.78234	.78604	.79016	.79398	.79686	.79996	.80268	.80570	.80834	.81082	.81374	.81628	.81856
0.17	.76930	.77350	.77740	.78166	.78588	.78986	.79364	.79698	.80050	.80436	.80812	.81062	.81346	.81582	.81866	.82110	.82328	.82592	.82816	.83026
0.18	.78276	.78670	.79046	.79452	.79858	.80228	.80576	.80900	.81238	.81598	.81940	.82180	.82456	.82688	.82956	.83186	.83396	.83630	.83840	.84036
0.19	.79578	.79954	.80306	.80692	.81068	.81442	.81772	.82076	.82396	.82742	.83052	.83276	.83538	.83756	.84018	.84224	.84418	.84642	.84834	.85020
0.20	.80832	.81180	.81516	.81866	.82244	.82572	.82882	.83160	.83466	.83792	.84086	.84296	.84544	.84750	.85002	.85200	.85376	.85582	.85756	.85920

Powers of $KS - V$ Sequential test against Normal for $n = 40$

$KS\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02346	.04690	.07636	.09972	.12846	.15356	.17990	.20626	.23370	.26022	.28634	.31194	.33658	.36092	.38540	.41092	.43218	.45436	.47640
0.02	.20386	.22264	.24232	.26296	.28022	.30122	.32012	.33890	.35804	.37802	.39716	.41586	.43386	.45150	.46900	.48582	.50396	.51900	.53406	.54928
0.03	.32746	.34332	.35972	.37684	.39148	.40850	.42392	.43900	.45440	.47068	.48572	.50058	.51452	.52804	.54130	.55382	.56728	.57904	.59072	.60240
0.04	.42032	.43378	.44744	.46206	.47448	.48898	.50202	.51474	.52762	.54116	.55358	.56574	.57734	.58854	.59936	.60982	.62042	.62952	.63878	.64814
0.05	.48936	.50152	.51356	.52646	.53688	.54960	.56094	.57192	.58288	.59434	.60514	.61558	.62566	.63520	.64440	.65318	.66176	.66918	.67866	.68744
0.06	.54050	.55134	.56232	.57408	.58348	.59472	.60488	.61498	.62488	.63488	.64420	.65328	.66208	.67038	.67834	.68606	.69348	.69982	.70826	.71594
0.07	.59230	.60204	.61186	.62248	.63058	.64044	.64936	.65868	.66738	.67584	.68418	.69192	.69952	.70660	.71328	.72002	.72618	.73142	.73666	.74234
0.08	.63178	.64078	.64980	.65958	.66684	.67572	.68386	.69220	.70000	.70760	.71504	.72200	.72888	.73528	.74098	.74668	.75204	.75664	.76116	.76602
0.09	.66546	.67352	.68180	.69076	.69720	.70532	.71284	.72054	.72756	.73444	.74128	.74744	.75368	.75918	.76424	.76930	.77394	.77800	.78198	.78634
0.10	.69468	.70194	.70962	.71792	.72384	.73144	.73826	.74512	.75158	.75790	.76398	.76964	.77520	.78018	.78470	.78920	.79334	.79694	.80046	.80452
0.11	.72276	.72926	.73636	.74384	.74930	.75618	.76230	.76866	.77440	.77996	.78542	.79040	.79544	.79974	.80384	.80796	.81174	.81502	.81820	.82158
0.12	.74308	.74904	.75556	.76246	.76740	.77382	.77946	.78542	.79074	.79598	.80096	.80558	.81032	.81434	.81804	.82174	.82518	.82810	.83104	.83406
0.13	.76326	.76856	.77468	.78100	.78560	.79150	.79666	.80220	.80708	.81200	.81660	.82102	.82526	.82892	.83234	.83578	.83894	.84166	.84430	.84706
0.14	.78008	.78506	.79066	.79664	.80102	.80648	.81122	.81626	.82076	.82538	.82962	.83366	.83748	.84092	.84422	.84736	.85026	.85286	.85518	.85776
0.15	.79288	.79750	.80282	.80852	.81258	.81762	.82218	.82696	.83124	.83564	.83960	.84344	.84700	.85044	.85354	.85638	.85914	.86128	.86368	.86598
0.16	.80730	.81156	.81646	.82162	.82538	.82998	.83428	.83870	.84270	.84674	.85062	.85428	.85766	.86092	.86374	.86622	.86872	.87078	.87304	.87508
0.17	.82060	.82460	.82910	.83400	.83764	.84204	.84604	.85024	.85406	.85772	.86136	.86474	.86786	.87088	.87350	.87572	.87804	.87994	.88196	.88390
0.18	.83274	.83656	.84074	.84542	.84882	.85286	.85658	.86058	.86418	.86752	.87088	.87406	.87686	.87968	.88214	.88422	.88632	.88806	.88998	.89186
0.19	.84440	.84792	.85166	.85606	.85926	.86302	.86650	.87020	.87348	.87660	.87956	.88258	.88518	.88782	.89006	.89194	.89400	.89564	.89734	.89902
0.20	.85552	.85880	.86214	.86606	.86912	.87252	.87566	.87916	.88222	.88512	.88792	.89062	.89298	.89538	.89746	.89914	.90094	.90252	.90414	.90576

Table F.2 (Continued)

Powers of $KS - V$ Sequential test against Normal for $n = 45$

$KS\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03202	.06182	.08942	.11854	.14928	.18006	.21038	.24040	.27352	.30370	.33356	.35858	.38678	.41150	.43832	.46534	.48808	.51340	.53436
0.02	.24380	.26842	.29072	.31120	.33272	.35472	.37590	.39798	.41858	.44118	.46232	.48254	.49982	.51882	.53506	.55328	.57110	.58464	.60360	.61736
0.03	.38464	.40438	.42210	.43850	.45618	.47372	.49048	.50804	.52408	.54196	.55848	.57410	.58728	.60136	.61378	.62732	.64096	.65222	.66506	.67646
0.04	.48312	.49996	.51518	.52868	.54338	.55800	.57164	.58572	.59880	.61334	.62672	.63954	.65042	.66174	.67148	.68218	.69302	.70162	.71152	.71934
0.05	.55754	.57174	.58480	.59640	.60892	.62124	.63314	.64514	.65618	.66844	.67974	.69040	.69958	.70894	.71710	.72594	.73460	.74188	.74956	.75578
0.06	.61368	.62594	.63728	.64724	.65836	.66950	.68004	.69060	.70030	.71064	.72036	.72972	.73770	.74544	.75258	.75986	.76686	.77284	.77908	.78434
0.07	.66064	.67136	.68124	.69016	.69986	.70956	.71844	.72748	.73606	.74532	.75378	.76174	.76888	.77586	.78166	.78802	.79396	.79894	.80456	.80910
0.08	.69830	.70766	.71628	.72442	.73296	.74148	.74946	.75762	.76534	.77362	.78110	.78820	.79462	.80052	.80548	.81084	.81604	.82024	.82508	.82912
0.09	.72856	.73704	.74492	.75220	.76002	.76780	.77474	.78198	.78886	.79620	.80300	.80938	.81516	.82032	.82474	.82954	.83400	.83768	.84204	.84578
0.10	.76010	.76734	.77414	.78058	.78734	.79414	.80038	.80676	.81300	.81926	.82534	.83104	.83610	.84066	.84464	.84884	.85274	.85586	.85954	.86256
0.11	.78236	.78888	.79486	.80080	.80698	.81320	.81894	.82474	.83018	.83590	.84146	.84674	.85128	.85548	.85908	.86288	.86618	.86896	.87238	.87496
0.12	.80092	.80680	.81242	.81776	.82344	.82930	.83454	.83980	.84472	.85002	.85512	.85982	.86400	.86788	.87120	.87460	.87764	.87990	.88310	.88534
0.13	.82022	.82560	.83060	.83528	.84036	.84566	.85040	.85500	.85944	.86426	.86872	.87280	.87652	.87998	.88292	.88602	.88858	.89064	.89334	.89528
0.14	.83548	.84028	.84492	.84916	.85392	.85878	.86330	.86748	.87164	.87612	.88022	.88398	.88740	.89056	.89334	.89616	.89842	.90022	.90262	.90436
0.15	.84790	.85228	.85662	.86050	.86498	.86950	.87372	.87758	.88140	.88552	.88932	.89280	.89602	.89882	.90140	.90406	.90604	.90784	.91004	.91164
0.16	.85946	.86352	.86748	.87114	.87534	.87946	.88316	.88674	.89016	.89396	.89756	.90082	.90388	.90650	.90892	.91134	.91320	.91488	.91694	.91844
0.17	.87176	.87552	.87908	.88234	.88588	.88956	.89304	.89642	.89942	.90290	.90620	.90918	.91188	.91424	.91654	.91876	.92042	.92190	.92352	.92512
0.18	.88022	.88368	.88696	.89002	.89332	.89678	.90018	.90334	.90606	.90934	.91244	.91528	.91774	.91996	.92204	.92400	.92560	.92698	.92884	.93014
0.19	.88918	.89246	.89548	.89828	.90132	.90448	.90762	.91064	.91316	.91622	.91898	.92150	.92384	.92600	.92792	.92980	.93134	.93254	.93428	.93542
0.20	.89798	.90106	.90384	.90652	.90940	.91236	.91526	.91804	.92038	.92326	.92576	.92814	.93010	.93210	.93380	.93552	.93690	.93804	.93956	.94062

Powers of $KS - V$ Sequential test against Normal for $n = 50$

$KS\ a$ / $V\ a$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03294	.07012	.10584	.14172	.17816	.21660	.25308	.29110	.32442	.35428	.38494	.41816	.45080	.48112	.50860	.53232	.55734	.58106	.60432
0.02	.28366	.30782	.33380	.35900	.38426	.40910	.43536	.46038	.48582	.50818	.52814	.54912	.57112	.59236	.61212	.63006	.64482	.66136	.67654	.69140
0.03	.42594	.44524	.46608	.48634	.50646	.52590	.54682	.56650	.58614	.60332	.61866	.63530	.65220	.66798	.68316	.69608	.70886	.71950	.73066	.74156
0.04	.52568	.54186	.55868	.57556	.59194	.60790	.62518	.64126	.65726	.67096	.68388	.69688	.71076	.72364	.73568	.74612	.75478	.76464	.77352	.78172
0.05	.60506	.61848	.63246	.64618	.65994	.67316	.68722	.70046	.71362	.72482	.73554	.74638	.75744	.76796	.77782	.78650	.79364	.80174	.80828	.81486
0.06	.65808	.66944	.68166	.69364	.70568	.71722	.72908	.74046	.75198	.76180	.77098	.78026	.78994	.79862	.80676	.81412	.81998	.82674	.83214	.83772
0.07	.70112	.71102	.72166	.73216	.74270	.75296	.76352	.77324	.78302	.79162	.79966	.80774	.81624	.82374	.83070	.83724	.84258	.84842	.85298	.85774
0.08	.73378	.74254	.75226	.76190	.77158	.78064	.79002	.79872	.80732	.81482	.82202	.82932	.83676	.84336	.84950	.85524	.85976	.86470	.86866	.87284
0.09	.76486	.77240	.78100	.78952	.79808	.80634	.81458	.82216	.83002	.83652	.84284	.84926	.85570	.86146	.86680	.87174	.87566	.87994	.88332	.88702
0.10	.79034	.79684	.80460	.81236	.82010	.82746	.83486	.84166	.84844	.85432	.85994	.86556	.87124	.87636	.88094	.88532	.88896	.89260	.89554	.89886
0.11	.81234	.81814	.82508	.83202	.83898	.84554	.85212	.85812	.86426	.86962	.87466	.87950	.88474	.88930	.89340	.89748	.90082	.90414	.90674	.90970
0.12	.83268	.83764	.84382	.84986	.85590	.86174	.86748	.87266	.87826	.88316	.88774	.89220	.89688	.90106	.90478	.90852	.91150	.91454	.91672	.91934
0.13	.84832	.85266	.85830	.86362	.86904	.87440	.87986	.88456	.88966	.89396	.89816	.90218	.90626	.91012	.91328	.91674	.91944	.92212	.92412	.92650
0.14	.86356	.86758	.87276	.87754	.88232	.88704	.89212	.89634	.90084	.90456	.90848	.91196	.91576	.91914	.92184	.92510	.92756	.92994	.93174	.93386
0.15	.87690	.88056	.88520	.88946	.89380	.89802	.90266	.90652	.91058	.91404	.91756	.92060	.92408	.92726	.92994	.93260	.93470	.93684	.93844	.94024
0.16	.88776	.89108	.89534	.89924	.90324	.90710	.91126	.91484	.91868	.92190	.92512	.92788	.93100	.93384	.93614	.93854	.94042	.94232	.94364	.94542
0.17	.89790	.90086	.90472	.90832	.91204	.91564	.91946	.92280	.92622	.92922	.93212	.93456	.93740	.94002	.94204	.94436	.94600	.94776	.94916	.95056
0.18	.90642	.90922	.91264	.91594	.91944	.92282	.92628	.92932	.93250	.93518	.93776	.94002	.94260	.94504	.94692	.94908	.95050	.95210	.95344	.95474
0.19	.91428	.91688	.92004	.92314	.92640	.92950	.93264	.93534	.93818	.94066	.94314	.94504	.94734	.94962	.95132	.95334	.95464	.95614	.95742	.95856
0.20	.92120	.92362	.92644	.92934	.93244	.93526	.93814	.94076	.94348	.94578	.94796	.94974	.95188	.95402	.95558	.95752	.95866	.96006	.96126	.96226

Table F.2 (Continued)

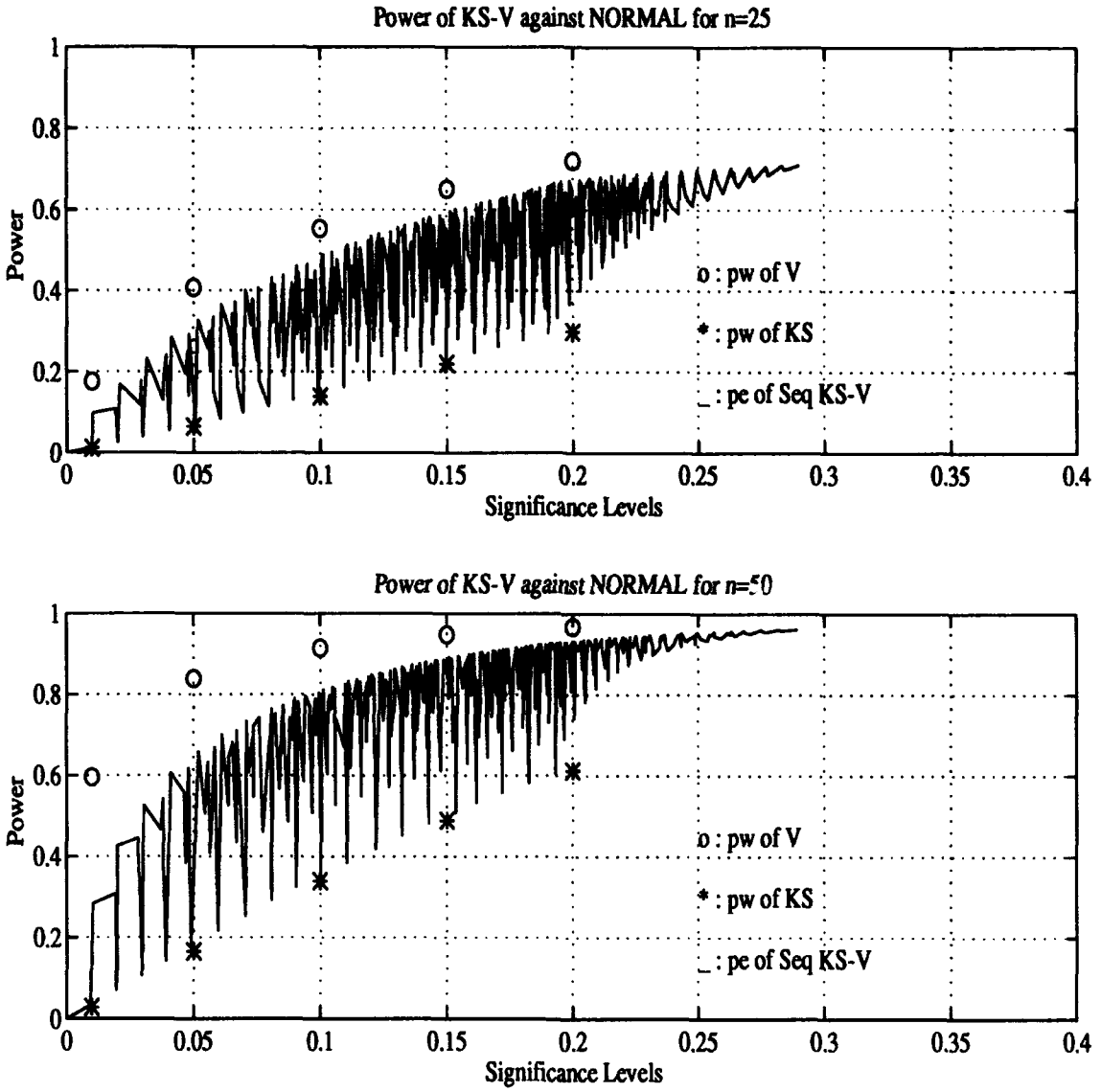

Figure F.1 Power comparisons of $KS - V$ against Normal

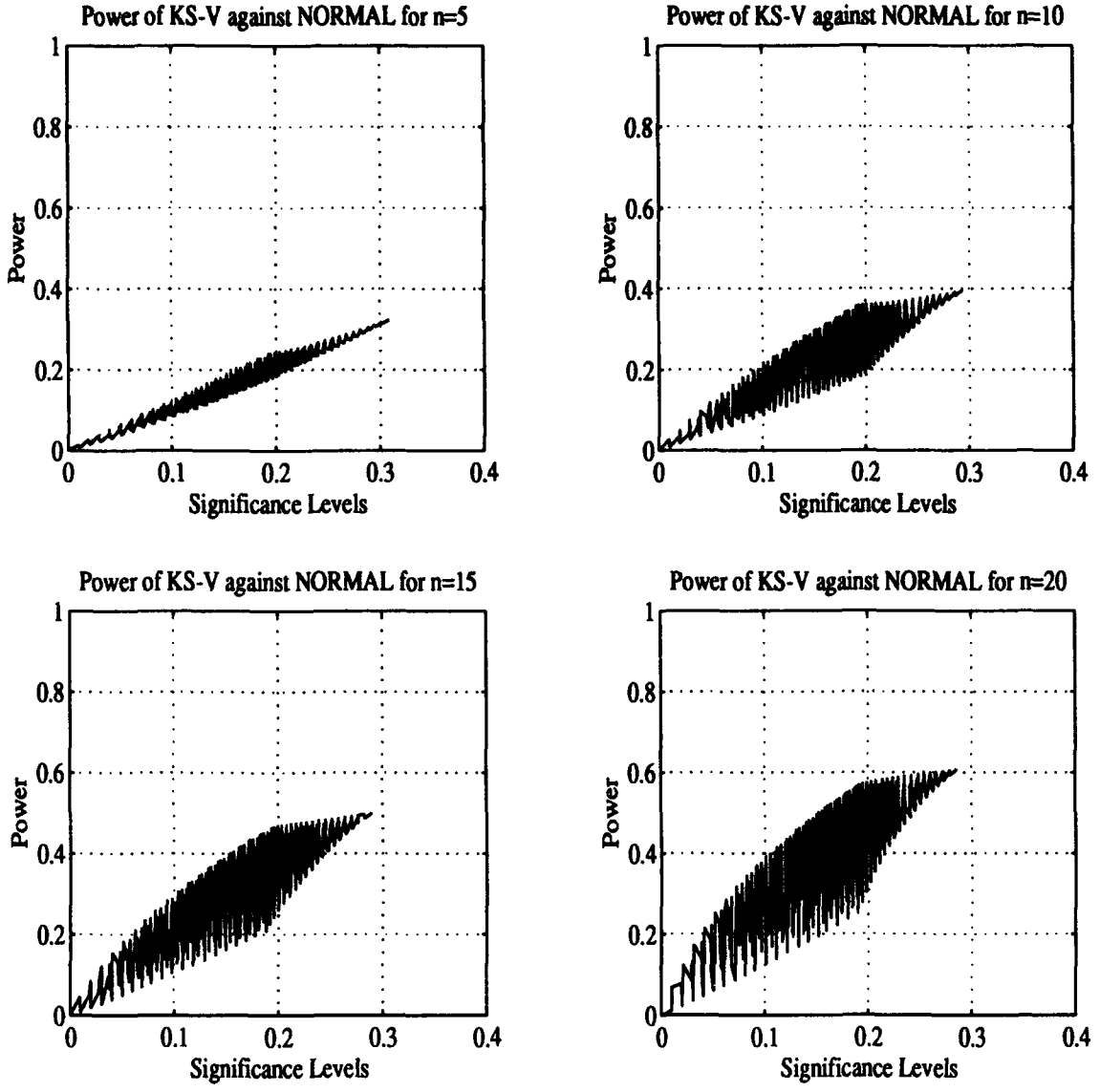

Figure F.1 (Continued)

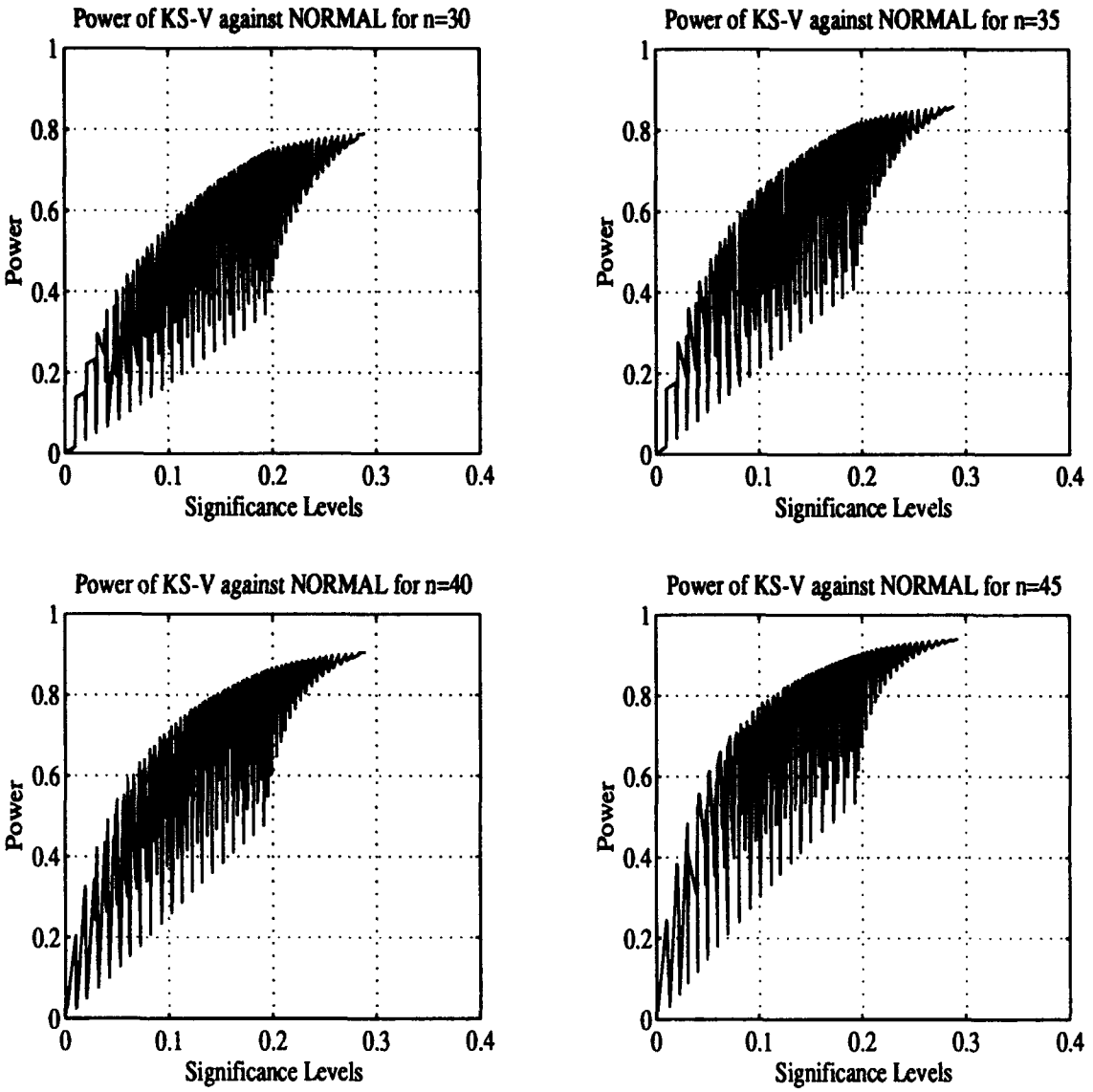

Figure F.1 (Continued)

Powers of $KS-V$ Sequential test against Exponential for $n = 5$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01874	.03490	.05222	.06776	.08372	.09966	.11588	.13094	.14700	.16342	.17870	.19224	.20660	.22078	.23580	.24694	.25880	.27164	.28404
0.02	.01752	.03518	.05038	.06692	.08162	.09688	.11216	.12772	.14220	.15780	.17384	.18872	.20200	.21598	.22994	.24262	.25542	.26724	.27878	.29176
0.03	.03388	.05044	.06480	.08062	.09470	.10954	.12436	.13948	.15358	.16888	.18458	.19910	.21208	.22582	.23952	.25192	.26466	.27598	.28828	.29988
0.04	.05150	.06688	.08034	.09558	.10914	.12352	.13792	.15250	.16626	.18118	.19644	.21060	.22332	.23672	.25016	.26224	.27452	.28552	.29750	.30900
0.05	.06794	.08232	.09518	.10970	.12266	.13660	.15062	.16486	.17832	.19268	.20760	.22154	.23390	.24702	.26018	.27206	.28404	.29446	.30646	.31772
0.06	.08522	.09846	.11042	.12434	.13680	.15030	.16396	.17760	.19056	.20466	.21928	.23276	.24490	.25776	.27062	.28222	.29404	.30452	.31594	.32686
0.07	.10084	.11312	.12448	.13768	.14980	.16282	.17602	.18918	.20176	.21548	.22974	.24286	.25472	.26718	.27984	.29126	.30268	.31296	.32418	.33466
0.08	.11616	.12756	.13838	.15098	.16238	.17470	.18732	.19998	.21234	.22568	.23960	.25246	.26404	.27628	.28852	.29968	.31098	.32108	.33202	.34232
0.09	.13092	.14164	.15182	.16378	.17468	.18652	.19886	.21106	.22304	.23604	.24954	.26224	.27350	.28544	.29736	.30832	.31934	.32934	.34004	.35034
0.10	.14628	.15608	.16556	.17708	.18748	.19890	.21094	.22268	.23424	.24698	.26018	.27252	.28350	.29524	.30696	.31768	.32854	.33832	.34878	.35884
0.11	.16270	.17160	.18046	.19128	.20118	.21222	.22384	.23526	.24638	.25862	.27126	.28324	.29398	.30544	.31678	.32720	.33772	.34728	.35734	.36706
0.12	.17866	.18668	.19494	.20534	.21478	.22538	.23658	.24764	.25848	.27034	.28258	.29418	.30466	.31568	.32678	.33694	.34718	.35662	.36644	.37586
0.13	.19298	.20010	.20798	.21792	.22698	.23716	.24782	.25858	.26906	.28052	.29238	.30368	.31392	.32466	.33546	.34558	.35536	.36468	.37416	.38344
0.14	.20802	.21458	.22192	.23118	.23984	.24962	.25998	.27020	.28044	.29136	.30274	.31368	.32362	.33400	.34448	.35434	.36392	.37288	.38222	.39130
0.15	.22148	.22726	.23412	.24292	.25136	.26066	.27048	.28048	.29032	.30088	.31182	.32250	.33212	.34224	.35250	.36208	.37140	.38020	.38934	.39828
0.16	.23648	.24130	.24748	.25570	.26364	.27238	.28168	.29140	.30084	.31090	.32150	.33192	.34138	.35120	.36140	.37070	.37980	.38840	.39734	.40612
0.17	.25150	.25538	.26076	.26836	.27584	.28410	.29296	.30236	.31136	.32112	.33122	.34124	.35046	.36006	.36994	.37900	.38784	.39636	.40504	.41356
0.18	.26446	.26792	.27288	.28010	.28722	.29508	.30344	.31244	.32106	.33050	.34020	.35002	.35900	.36850	.37824	.38716	.39582	.40398	.41260	.42096
0.19	.27842	.28126	.28586	.29272	.29948	.30706	.31496	.32358	.33190	.34078	.35020	.35974	.36844	.37772	.38716	.39586	.40430	.41234	.42078	.42886
0.20	.29252	.29462	.29880	.30518	.31142	.31862	.32604	.33430	.34222	.35078	.35998	.36926	.37760	.38644	.39570	.40422	.41254	.42036	.42884	.43640

Powers of $KS-V$ Sequential test against Exponential for $n = 10$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.05242	.09448	.13098	.16206	.19460	.22178	.24994	.27646	.30174	.32356	.34674	.36978	.39180	.41184	.43124	.44926	.46782	.48424	.50082
0.02	.05420	.09890	.13698	.16990	.19888	.22908	.25444	.28078	.30578	.32926	.34968	.37176	.39318	.41404	.43298	.45118	.46822	.48544	.50134	.51738
0.03	.09658	.13474	.16890	.19940	.22666	.25518	.27914	.30406	.32782	.35010	.36994	.39062	.41094	.43090	.44910	.46648	.48274	.49902	.51424	.52952
0.04	.13578	.16792	.19870	.22666	.25180	.27846	.30086	.32434	.34684	.36824	.38720	.40686	.42642	.44588	.46328	.47992	.49544	.51104	.52554	.54040
0.05	.17286	.19906	.22654	.25212	.27526	.30020	.32128	.34362	.36512	.38548	.40332	.42216	.44082	.45924	.47612	.49214	.50702	.52234	.53648	.55078
0.06	.20586	.22728	.25162	.27496	.29640	.31964	.33948	.36080	.38116	.40060	.41780	.43572	.45378	.47154	.48782	.50316	.51764	.53256	.54624	.56030
0.07	.23686	.25422	.27552	.29680	.31668	.33860	.35732	.37760	.39690	.41542	.43196	.44888	.46636	.48356	.49934	.51402	.52790	.54222	.55560	.56904
0.08	.26470	.27870	.29742	.31678	.33488	.35518	.37304	.39222	.41064	.42838	.44420	.46044	.47716	.49356	.50910	.52330	.53660	.55046	.56352	.57660
0.09	.28986	.30114	.31770	.33502	.35160	.37102	.38790	.40618	.42384	.44088	.45620	.47190	.48782	.50396	.51882	.53280	.54544	.55902	.57156	.58430
0.10	.31238	.32190	.33602	.35180	.36728	.38550	.40168	.41908	.43612	.45246	.46730	.48242	.49758	.51326	.52756	.54092	.55344	.56664	.57870	.59110
0.11	.33386	.34186	.35392	.36780	.38226	.39904	.41434	.43092	.44728	.46296	.47724	.49176	.50628	.52138	.53542	.54834	.56050	.57336	.58512	.59704
0.12	.35414	.36108	.37156	.38426	.39752	.41294	.42742	.44316	.45886	.47382	.48740	.50128	.51532	.52990	.54346	.55590	.56760	.58012	.59154	.60316
0.13	.37432	.38036	.38936	.40076	.41272	.42704	.44054	.45554	.47028	.48444	.49744	.51088	.52456	.53850	.55166	.56372	.57502	.58714	.59824	.60962
0.14	.39362	.39898	.40664	.41688	.42768	.44102	.45388	.46784	.48202	.49566	.50822	.52106	.53426	.54784	.56050	.57206	.58302	.59470	.60586	.61664
0.15	.41162	.41652	.42304	.43206	.44168	.45404	.46570	.47896	.49260	.50574	.51774	.53008	.54284	.55590	.56810	.57932	.59004	.60146	.61200	.62298
0.16	.42846	.43304	.43856	.44662	.45544	.46694	.47778	.49042	.50344	.51610	.52758	.53956	.55196	.56458	.57632	.58714	.59744	.60840	.61884	.62912
0.17	.44492	.44936	.45388	.46048	.46916	.47978	.48982	.50146	.51388	.52598	.53706	.54864	.56040	.57268	.58402	.59446	.60482	.61504	.62462	.63522
0.18	.46210	.46640	.47038	.47642	.48386	.49362	.50308	.51406	.52602	.53734	.54790	.55868	.57024	.58192	.59294	.60308	.61278	.62256	.63256	.64254
0.19	.47604	.48028	.48390	.48920	.49592	.50496	.51366	.52404	.53520	.54614	.55634	.56662	.57750	.58912	.59988	.60972	.61910	.62900	.63832	.64804
0.20	.49168	.49574	.49868	.50340	.50958	.51766	.52562	.53518	.54558	.55612	.56590	.57558	.58654	.59750	.60790	.61746	.62640	.63584	.64500	.65454

Table F.2 Power tables of $KS-V$ against Exponential ditribution

Powers of $KS - V$ Sequential test against Exponential for n = 15

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10844	.18756	.25366	.30784	.35808	.40216	.43782	.46912	.49876	.52728	.55262	.57568	.59648	.61936	.63976	.65752	.67476	.68992	.70528
0.02	.10318	.18896	.25586	.31396	.36180	.40668	.44582	.47820	.50638	.53370	.55910	.58196	.60298	.62364	.64262	.66154	.67788	.69340	.70740	.72142
0.03	.18908	.25576	.31192	.36260	.40464	.44454	.47976	.50916	.53482	.56010	.58362	.60496	.62442	.64340	.66110	.67880	.69416	.70852	.72148	.73456
0.04	.24956	.30300	.35100	.39580	.43392	.47080	.50328	.53102	.55528	.57888	.60096	.62084	.63944	.65734	.67410	.69076	.70514	.71876	.73110	.74338
0.05	.30156	.34554	.38684	.42664	.46108	.49502	.52474	.55052	.57328	.59508	.61626	.63492	.65252	.66932	.68512	.70108	.71494	.72792	.73974	.75140
0.06	.34692	.38272	.41836	.45384	.48512	.51614	.54384	.56784	.58920	.60940	.62926	.64700	.66384	.67972	.69482	.71006	.72310	.73574	.74696	.75822
0.07	.38804	.41700	.44722	.47890	.50712	.53562	.56162	.58418	.60446	.62366	.64226	.65912	.67514	.69030	.70468	.71920	.73154	.74354	.75424	.76488
0.08	.42124	.44520	.47088	.49944	.52534	.55152	.57626	.59754	.61678	.63494	.65256	.66832	.68354	.69818	.71222	.72628	.73802	.74958	.75988	.77028
0.09	.45308	.47350	.49508	.52024	.54372	.56784	.59062	.61072	.62880	.64604	.66276	.67766	.69228	.70650	.72002	.73350	.74446	.75568	.76554	.77584
0.10	.48482	.50208	.51992	.54162	.56262	.58480	.60596	.62480	.64168	.65796	.67372	.68774	.70158	.71508	.72790	.74090	.75160	.76218	.77172	.78140
0.11	.50968	.52474	.53998	.55916	.57810	.59846	.61822	.63584	.65196	.66752	.68268	.69622	.70946	.72252	.73486	.74752	.75784	.76806	.77740	.78686
0.12	.53366	.54716	.56030	.57718	.59416	.61292	.63076	.64722	.66250	.67714	.69176	.70480	.71736	.73000	.74176	.75374	.76370	.77354	.78260	.79184
0.13	.55476	.56722	.57848	.59328	.60886	.62590	.64242	.65798	.67246	.68628	.70022	.71276	.72496	.73716	.74836	.75990	.76920	.77870	.78736	.79612
0.14	.57456	.58622	.59576	.60844	.62256	.63830	.65348	.66812	.68194	.69526	.70846	.72050	.73224	.74404	.75472	.76594	.77488	.78400	.79238	.80092
0.15	.59472	.60562	.61368	.62450	.63686	.65158	.66562	.67926	.69202	.70462	.71700	.72840	.73962	.75092	.76116	.77206	.78070	.78950	.79760	.80584
0.16	.61334	.62356	.63072	.64012	.65128	.66452	.67764	.68950	.70172	.71340	.72512	.73616	.74686	.75770	.76754	.77802	.78644	.79500	.80290	.81084
0.17	.63124	.64098	.64718	.65524	.66468	.67688	.68898	.70004	.71118	.72216	.73326	.74372	.75388	.76432	.77380	.78402	.79210	.80030	.80792	.81560
0.18	.64774	.65696	.66248	.66940	.67818	.68898	.69986	.70972	.72022	.73088	.74128	.75134	.76094	.77074	.77970	.78950	.79738	.80522	.81244	.81998
0.19	.66222	.67094	.67602	.68202	.68978	.69932	.70940	.71882	.72858	.73862	.74848	.75824	.76734	.77672	.78532	.79488	.80234	.80998	.81714	.82446
0.20	.67788	.68626	.69098	.69630	.70304	.71166	.72074	.72920	.73824	.74730	.75626	.76542	.77400	.78272	.79076	.79998	.80750	.81468	.82150	.82850

Powers of $KS - V$ Sequential test against Exponential for n = 20

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.17936	.30152	.38914	.45938	.52110	.56898	.61192	.64406	.67668	.70350	.72816	.75048	.77060	.78782	.80366	.81768	.83084	.84316	.85520
0.02	.16938	.30164	.39812	.46992	.52760	.57944	.61938	.65654	.68394	.71220	.73546	.75702	.77680	.79478	.80950	.82370	.83624	.84816	.85934	.86826
0.03	.28150	.38364	.46216	.52272	.57190	.61662	.65210	.68482	.70980	.73478	.75620	.77570	.79372	.81010	.82308	.83618	.84746	.85852	.86872	.87706
0.04	.36144	.44192	.50766	.55960	.60302	.64198	.67402	.70462	.72802	.75100	.77030	.78834	.80494	.81990	.83218	.84444	.85524	.86584	.87554	.88340
0.05	.42928	.49230	.54622	.59078	.62878	.66404	.69352	.72156	.74304	.76414	.78232	.79926	.81460	.82870	.84032	.85192	.86210	.87202	.88104	.88852
0.06	.48506	.53466	.57976	.61820	.65168	.68340	.71032	.73622	.75594	.77518	.79212	.80790	.82232	.83562	.84664	.85780	.86744	.87690	.88562	.89366
0.07	.52928	.56986	.60816	.64134	.67116	.69982	.72436	.74824	.76644	.78466	.80064	.81588	.82968	.84230	.85272	.86354	.87280	.88182	.88978	.89642
0.08	.56668	.60092	.63322	.66244	.68944	.71520	.73774	.75982	.77694	.79372	.80870	.82292	.83614	.84830	.85806	.86842	.87724	.88550	.89334	.89982
0.09	.59782	.62782	.65514	.68014	.70404	.72736	.74816	.76886	.78478	.80094	.81536	.82880	.84134	.85314	.86250	.87234	.88086	.88868	.89602	.90222
0.10	.62464	.65118	.67490	.69712	.71874	.73990	.75912	.77846	.79322	.80854	.82252	.83530	.84710	.85822	.86734	.87660	.88480	.89224	.89930	.90518
0.11	.65042	.67376	.69346	.71336	.73258	.75212	.76980	.78780	.80172	.81634	.82960	.84160	.85286	.86346	.87212	.88124	.88890	.89600	.90264	.90832
0.12	.67498	.69566	.71242	.72964	.74680	.76430	.78040	.79716	.80974	.82352	.83572	.84698	.85776	.86782	.87606	.88478	.89214	.89886	.90516	.91104
0.13	.69406	.71322	.72732	.74286	.75820	.77432	.78948	.80530	.81706	.82988	.84120	.85192	.86234	.87192	.87992	.88830	.89574	.90210	.90832	.91366
0.14	.71268	.73064	.74284	.75570	.76946	.78402	.79776	.81250	.82336	.83548	.84618	.85630	.86610	.87526	.88300	.89106	.89786	.90438	.91034	.91552
0.15	.73048	.74708	.75748	.76848	.78066	.79396	.80648	.82008	.83052	.84200	.85222	.86190	.87104	.87976	.88716	.89484	.90134	.90770	.91334	.91826
0.16	.74706	.76266	.77148	.78068	.79168	.80348	.81484	.82754	.83738	.84828	.85790	.86682	.87542	.88380	.89090	.89828	.90436	.91046	.91578	.92044
0.17	.76250	.77728	.78524	.79352	.80294	.81346	.82342	.83488	.84382	.85416	.86328	.87182	.87996	.88782	.89434	.90154	.90742	.91332	.91842	.92300
0.18	.77632	.79010	.79742	.80470	.81306	.82242	.83142	.84202	.85022	.85976	.86808	.87606	.88388	.89148	.89790	.90480	.91040	.91558	.92038	.92532
0.19	.79128	.80436	.81074	.81674	.82386	.83208	.83984	.84944	.85706	.86596	.87370	.88122	.88844	.89574	.90188	.90836	.91374	.91874	.92330	.92742
0.20	.80226	.81486	.82078	.82608	.83216	.83948	.84652	.85548	.86232	.87072	.87818	.88522	.89212	.89916	.90512	.91124	.91642	.92130	.92572	.92966

Table F.3 (Continued)

Powers of $KS - V$ Sequential test against Exponential for n = 25

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.27294	.43318	.52986	.60950	.66498	.71024	.74752	.77706	.80136	.82496	.84352	.85966	.87446	.88978	.90130	.91154	.91920	.92602	.93176
0.02	.23994	.42624	.54222	.61648	.67794	.72118	.75738	.78712	.81086	.83128	.85080	.86676	.88004	.89254	.90536	.91488	.92376	.92988	.93576	.94038
0.03	.37880	.51366	.60438	.66584	.71774	.75446	.78490	.81072	.83120	.84874	.86596	.87998	.89178	.90272	.91432	.92290	.93058	.93626	.94186	.94682
0.04	.47936	.57838	.64984	.70056	.74484	.77660	.80324	.82640	.84514	.86090	.87640	.88928	.90026	.91020	.92072	.92880	.93570	.94108	.94588	.94972
0.05	.55450	.62944	.68728	.72992	.76744	.79520	.81922	.83988	.85642	.87078	.88490	.89704	.90716	.91628	.92612	.93364	.93984	.94488	.94912	.95278
0.06	.61098	.66986	.71674	.75324	.78552	.81026	.83110	.84982	.86462	.87800	.89130	.90258	.91216	.92062	.92968	.93666	.94272	.94746	.95156	.95486
0.07	.65364	.70106	.73988	.77090	.79904	.82150	.84038	.85764	.87134	.88348	.89610	.90670	.91572	.92382	.93230	.93900	.94484	.94940	.95330	.95656
0.08	.69126	.73002	.76158	.78820	.81228	.83268	.84982	.86558	.87818	.88940	.90130	.91098	.91960	.92712	.93482	.94132	.94688	.95116	.95478	.95780
0.09	.72280	.75418	.7[illegible]94	.80378	.82488	.84308	.85834	.87270	.88422	.89462	.90556	.91470	.92284	.92998	.93738	.94334	.94872	.95262	.95614	.95910
0.10	.74958	.77560	.79[illegible]04	.81694	.83546	.85208	.86582	.87864	.88942	.89906	.90908	.91764	.92542	.93226	.93932	.94484	.95010	.95392	.95730	.96002
0.11	.77312	.79598	.81278	.82974	.84592	.86100	.87338	.88474	.89476	.90370	.91342	.92148	.92886	.93536	.94206	.94722	.95202	.95574	.95902	.96158
0.12	.79208	.81274	.82668	.84128	.85528	.86886	.88004	.89022	.89918	.90766	.91682	.92452	.93166	.93776	.94426	.94926	.95390	.95750	.96054	.96292
0.13	.80906	.82782	.83914	.85158	.86366	.87626	.88658	.89586	.90430	.91214	.92076	.92798	.93440	.94028	.94654	.95124	.95574	.95916	.96184	.96422
0.14	.82354	.84088	.85032	.86128	.87200	.88346	.89250	.90086	.90860	.91564	.92380	.93062	.93670	.94248	.94826	.95276	.95702	.96030	.96294	.96528
0.15	.83876	.85514	.86294	.87196	.88078	.89086	.89864	.90596	.91316	.91984	.92748	.93388	.93962	.94504	.95044	.95474	.95874	.96190	.96426	.96640
0.16	.85060	.86600	.87292	.88028	.88780	.89702	.90404	.91088	.91726	.92358	.93044	.93662	.94186	.94706	.95214	.95624	.95992	.96290	.96520	.96732
0.17	.86296	.87680	.88260	.88888	.89490	.90312	.90940	.91538	.92120	.92716	.93364	.93936	.94408	.94896	.95388	.95776	.96140	.96434	.96650	.96852
0.18	.87302	.88568	.89042	.89582	.90096	.90796	.91374	.91922	.92466	.93016	.93612	.94158	.94600	.95052	.95526	.95892	.96240	.96526	.96734	.96928
0.19	.88174	.89384	.89790	.90264	.90716	.91328	.91854	.92366	.92858	.93370	.93916	.94424	.94810	.95234	.95696	.96050	.96380	.96646	.96844	.97016
0.20	.89070	.90166	.90538	.90952	.91344	.91882	.92354	.92800	.93224	.93694	.94190	.94678	.95046	.95446	.95880	.96216	.96520	.96766	.96960	.97128

Powers of $KS - V$ Sequential test against Exponential for n = 30

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.35946	.54430	.65254	.72594	.78248	.82448	.85082	.87692	.89456	.91014	.92356	.93296	.94122	.94902	.95536	.96030	.96518	.97020	.97370
0.02	.33746	.55322	.66984	.74450	.79412	.83466	.86516	.88466	.90412	.91766	.92940	.93958	.94736	.95378	.95988	.96472	.96884	.97266	.97672	.97944
0.03	.48412	.63796	.72632	.78420	.82430	.85780	.88378	.89910	.91574	.92746	.93742	.94668	.95350	.95888	.96420	.96840	.97192	.97548	.97918	.98146
0.04	.59040	.70158	.76598	.81302	.84626	.87510	.89786	.91098	.92528	.93572	.94462	.95218	.95850	.96312	.96804	.97164	.97478	.97750	.98074	.98286
0.05	.66038	.74270	.79378	.83390	.86272	.88838	.90832	.91984	.93214	.94156	.94948	.95646	.96220	.96652	.97082	.97426	.97718	.97952	.98240	.98436
0.06	.71472	.77808	.81810	.85122	.87594	.89770	.91540	.92554	.93714	.94538	.95290	.95918	.96436	.96842	.97264	.97546	.97832	.98062	.98326	.98518
0.07	.75962	.80580	.83774	.86518	.88698	.90592	.92218	.93086	.94100	.94872	.95582	.96176	.96658	.97054	.97408	.97686	.97934	.98140	.98398	.98582
0.08	.78956	.82624	.85172	.87526	.89448	.91170	.92700	.93448	.94406	.95134	.95814	.96380	.96816	.97176	.97516	.97778	.98010	.98208	.98452	.98630
0.09	.81304	.84488	.86606	.88620	.90332	.91750	.93084	.93806	.94666	.95356	.95968	.96500	.96922	.97276	.97614	.97870	.98102	.98278	.98522	.98684
0.10	.83540	.86182	.87928	.89668	.91190	.92426	.93646	.94280	.95048	.95658	.96216	.96720	.97112	.97434	.97744	.97990	.98210	.98384	.98614	.98764
0.11	.85506	.87758	.89092	.90532	.91738	.92886	.94034	.94602	.95298	.95862	.96390	.96882	.97268	.97570	.97874	.98092	.98286	.98450	.98662	.98812
0.12	.87116	.89042	.90154	.91348	.92430	.93400	.94394	.94916	.95550	.96086	.96586	.97042	.97416	.97684	.97968	.98176	.98362	.98518	.98722	.98844
0.13	.88492	.90176	.91068	.92026	.92960	.93804	.94756	.95246	.95840	.96350	.96810	.97234	.97584	.97844	.98066	.98266	.98436	.98578	.98770	.98896
0.14	.89692	.91132	.91890	.92688	.93472	.94202	.95076	.95530	.96070	.96538	.96978	.97364	.97688	.97936	.98152	.98338	.98492	.98634	.98820	.98940
0.15	.90582	.91906	.92518	.93200	.93884	.94512	.95312	.95716	.96236	.96674	.97078	.97440	.97776	.98010	.98214	.98384	.98536	.98678	.98846	.98980
0.16	.91550	.92684	.93208	.93758	.94310	.94862	.95620	.95982	.96452	.96844	.97226	.97572	.97858	.98082	.98280	.98456	.98598	.98732	.98898	.99014
0.17	.92254	.93328	.93728	.94194	.94694	.95180	.95838	.96172	.96610	.96998	.97334	.97666	.97938	.98152	.98354	.98508	.98634	.98764	.98922	.99034
0.18	.92810	.93790	.94168	.94570	.94998	.95428	.96070	.96380	.96804	.97160	.97446	.97750	.98004	.98206	.98382	.98528	.98654	.98784	.98934	.99044
0.19	.93478	.94336	.94666	.94986	.95338	.95724	.96306	.96582	.96974	.97294	.97556	.97812	.98058	.98252	.98422	.98556	.98682	.98812	.98960	.99070
0.20	.94102	.94882	.95182	.95446	.95762	.96064	.96518	.96766	.97144	.97418	.97650	.97872	.98108	.98286	.98456	.98590	.98716	.98844	.98976	.99076

Table F.3 (Continued)

Powers of $KS - V$ Sequential test against Exponential for $n = 35$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.45480	.66066	.76542	.82428	.86262	.89446	.91358	.93354	.94498	.95550	.96364	.97092	.97766	.98194	.98668	.98834	.98958	.99082	.99202
0.02	.39420	.64532	.76900	.83426	.87282	.90038	.92480	.93800	.95316	.96026	.96830	.97380	.97878	.98320	.98582	.98908	.99054	.99162	.99268	.99362
0.03	.56886	.73140	.81856	.86868	.89782	.91936	.93798	.94838	.96126	.96744	.97402	.97862	.98280	.98670	.98844	.99066	.99206	.99312	.99418	.99500
0.04	.67976	.78740	.85140	.89046	.91430	.93234	.94726	.95570	.96516	.97096	.97694	.98110	.98488	.98804	.98946	.99142	.99282	.99378	.99466	.99544
0.05	.74932	.82474	.87496	.90624	.92820	.94136	.95418	.96166	.96972	.97468	.97998	.98320	.98604	.98878	.99000	.99196	.99320	.99416	.99504	.99582
0.06	.80440	.85594	.89332	.91790	.93378	.94762	.95928	.96554	.97214	.97642	.98158	.98476	.98760	.99014	.99128	.99234	.99350	.99446	.99518	.99596
0.07	.83812	.87930	.90732	.92752	.94100	.95308	.96368	.96908	.97518	.97884	.98298	.98558	.98864	.99106	.99220	.99314	.99426	.99522	.99594	.99640
0.08	.86336	.89452	.91722	.93326	.94522	.95598	.96542	.97030	.97624	.97978	.98374	.98658	.98922	.99142	.99256	.99340	.99450	.99546	.99618	.99664
0.09	.88172	.90806	.92598	.93916	.95006	.95928	.96670	.97158	.97734	.98054	.98442	.98726	.98990	.99186	.99292	.99376	.99474	.99570	.99642	.99688
0.10	.89682	.91792	.93230	.94414	.95384	.96222	.96920	.97338	.97880	.98198	.98512	.98796	.99040	.99234	.99340	.99426	.99522	.99618	.99690	.99736
0.11	.91006	.92814	.94002	.95008	.95836	.96498	.97098	.97480	.97984	.98280	.98548	.98812	.99056	.99246	.99350	.99434	.99532	.99626	.99698	.99742
0.12	.92138	.93786	.94656	.95502	.96242	.96828	.97322	.97674	.98148	.98404	.98648	.98882	.99112	.99288	.99382	.99466	.99558	.99626	.99698	.99742
0.13	.93166	.94468	.95220	.95874	.96468	.97004	.97426	.97778	.98238	.98474	.98704	.98932	.99146	.99312	.99406	.99478	.99572	.99628	.99698	.99742
0.14	.94208	.95276	.95778	.96310	.96836	.97224	.97644	.97978	.98376	.98588	.98810	.98988	.99194	.99360	.99446	.99518	.99612	.99668	.99720	.99758
0.15	.94776	.95726	.96080	.96516	.97000	.97346	.97738	.98054	.98388	.98596	.98818	.98996	.99198	.99362	.99448	.99520	.99614	.99670	.99720	.99758
0.16	.95342	.96228	.96440	.96830	.97278	.97534	.97884	.98158	.98466	.98654	.98854	.99016	.99218	.99380	.99466	.99538	.99616	.99672	.99722	.99758
0.17	.95904	.96690	.96854	.97154	.97556	.97808	.98120	.98270	.98548	.98726	.98908	.99050	.99238	.99398	.99484	.99556	.99624	.99680	.99722	.99758
0.18	.96318	.97032	.97172	.97382	.97718	.97932	.98206	.98314	.98592	.98762	.98944	.99076	.99248	.99408	.99494	.99566	.99634	.99684	.99726	.99762
0.19	.96770	.97444	.97568	.97738	.97926	.98122	.98340	.98444	.98698	.98866	.99014	.99092	.99264	.99424	.99510	.99568	.99636	.99686	.99728	.99764
0.20	.97204	.97820	.97940	.98078	.98150	.98308	.98486	.98566	.98804	.98946	.99094	.99162	.99312	.99458	.99544	.99602	.99658	.99708	.99750	.99786

Powers of $KS - V$ Sequential test against Exponential for $n = 40$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.55678	.73784	.84248	.88430	.92012	.93768	.95488	.96550	.97458	.97798	.98180	.98642	.98810	.98954	.99148	.99184	.99290	.99522	.99560
0.02	.45362	.72344	.82586	.89474	.92170	.94702	.95888	.96926	.97826	.98310	.98542	.98826	.99200	.99336	.99374	.99518	.99554	.99592	.99704	.99736
0.03	.64038	.80280	.87230	.91704	.93858	.95736	.96674	.97534	.98286	.98718	.98932	.99168	.99436	.99558	.99578	.99604	.99640	.99652	.99746	.99780
0.04	.74950	.85266	.90000	.93600	.95144	.96596	.97270	.97862	.98564	.98920	.99120	.99268	.99490	.99578	.99598	.99624	.99660	.99672	.99766	.99780
0.05	.81872	.88824	.92102	.94792	.96100	.97224	.97806	.98196	.98714	.99054	.99222	.99292	.99496	.99584	.99604	.99630	.99666	.99678	.99770	.99784
0.06	.85168	.90398	.93090	.95310	.96452	.97386	.97960	.98302	.98802	.99132	.99292	.99362	.99544	.99596	.99616	.99642	.99678	.99686	.99778	.99792
0.07	.87872	.91788	.93884	.95818	.96838	.97560	.98072	.98404	.98904	.99144	.99304	.99374	.99558	.99608	.99618	.99644	.99680	.99688	.99780	.99792
0.08	.90098	.92992	.94616	.96308	.97218	.97804	.98208	.98490	.98946	.99168	.99328	.99394	.99578	.99628	.99638	.99664	.99700	.99706	.99800	.99812
0.09	.91582	.93780	.95006	.96488	.97274	.97858	.98238	.98516	.98946	.99168	.99328	.99394	.99578	.99628	.99638	.99664	.99700	.99706	.99800	.99812
0.10	.93268	.94878	.95828	.96926	.97558	.98106	.98432	.98710	.99124	.99346	.99478	.99544	.99680	.99732	.99742	.99768	.99778	.99784	.99834	.99846
0.11	.94238	.95558	.96378	.97188	.97674	.98168	.98460	.98726	.99126	.99348	.99480	.99546	.99680	.99732	.99742	.99768	.99778	.99784	.99834	.99846
0.12	.95022	.95998	.96686	.97378	.97790	.98230	.98510	.98770	.99144	.99366	.99498	.99564	.99694	.99746	.99756	.99782	.99792	.99798	.99834	.99846
0.13	.95660	.96440	.97030	.97562	.97954	.98360	.98566	.98810	.99176	.99384	.99516	.99564	.99694	.99746	.99756	.99782	.99792	.99798	.99834	.99846
0.14	.96176	.96890	.97416	.97858	.98110	.98436	.98610	.98824	.99190	.99398	.99522	.99570	.99700	.99752	.99762	.99788	.99798	.99804	.99834	.99846
0.15	.96668	.97278	.97630	.98038	.98264	.98550	.98722	.98936	.99256	.99436	.99560	.99608	.99738	.99790	.99800	.99826	.99836	.99842	.99872	.99886
0.16	.97210	.97722	.98006	.98320	.98546	.98756	.98872	.99070	.99312	.99466	.99572	.99608	.99738	.99790	.99800	.99826	.99836	.99842	.99872	.99886
0.17	.97706	.98108	.98274	.98576	.98780	.98878	.98994	.99150	.99356	.99510	.99616	.99652	.99746	.99798	.99808	.99834	.99844	.99850	.99880	.99886
0.18	.98040	.98422	.98550	.98800	.98926	.99012	.99120	.99218	.99424	.99576	.99662	.99716	.99758	.99810	.99816	.99842	.99844	.99850	.99880	.99886
0.19	.98280	.98638	.98766	.98998	.99068	.99154	.99262	.99348	.99554	.99628	.99734	.99758	.99810	.99862	.99864	.99866	.99868	.99874	.99904	.99908
0.20	.98342	.98678	.98808	.99036	.99106	.99184	.99262	.99348	.99554	.99628	.99734	.99758	.99810	.99862	.99864	.99866	.99868	.99874	.99904	.99908

Table F.3 (Continued)

Powers of $KS - V$ Sequential test against Exponential for $n = 45$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.63166	.79980	.86608	.91876	.94798	.96798	.97638	.98144	.98892	.99178	.99384	.99548	.99548	.99554	.99734	.99734	.99734	.99788	.99902
0.02	.52922	.80540	.88780	.92526	.95094	.96872	.98066	.98670	.98960	.99412	.99630	.99802	.99888	.99888	.99892	.99942	.99942	.99942	.99996	.99996
0.03	.70740	.86934	.91840	.94240	.96046	.97546	.98544	.98890	.99026	.99436	.99642	.99814	.99898	.99898	.99902	.99952	.99952	.99952	.99996	.99996
0.04	.80414	.90026	.93570	.95254	.96300	.97664	.98636	.98960	.99094	.99474	.99680	.99814	.99898	.99898	.99902	.99952	.99952	.99952	.99996	.99996
0.05	.86750	.92210	.94720	.96144	.96838	.98140	.99020	.99320	.99454	.99724	.99780	.99914	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.06	.90240	.94328	.95790	.96878	.97408	.98398	.99198	.99410	.99488	.99758	.99814	.99914	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.07	.92952	.95494	.96692	.97674	.97914	.98588	.99316	.99484	.99488	.99758	.99814	.99914	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.08	.94388	.96288	.97180	.98016	.98238	.98802	.99392	.99560	.99560	.99766	.99822	.99922	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.09	.95232	.96648	.97394	.98230	.98448	.98964	.99418	.99560	.99560	.99766	.99822	.99922	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.10	.96316	.97540	.98046	.98594	.98730	.98964	.99418	.99560	.99560	.99766	.99822	.99922	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.11	.97208	.97848	.98226	.98598	.98732	.98966	.99418	.99560	.99560	.99766	.99822	.99922	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.12	.97352	.97966	.98334	.98674	.98808	.98966	.99418	.99560	.99560	.99766	.99822	.99922	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.13	.97894	.98364	.98540	.98804	.98878	.99036	.99428	.99568	.99568	.99766	.99822	.99922	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.14	.98298	.98556	.98732	.98992	.99066	.99216	.99576	.99688	.99688	.99886	.99942	.99942	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.15	.98590	.98848	.98866	.99068	.99126	.99276	.99632	.99744	.99744	.99942	.99942	.99942	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.16	.99042	.99300	.99336	.99416	.99420	.99566	.99684	.99796	.99796	.99942	.99942	.99942	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.17	.99186	.99356	.99392	.99418	.99422	.99568	.99686	.99796	.99796	.99942	.99942	.99942	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.18	.99186	.99356	.99392	.99418	.99422	.99568	.99686	.99796	.99796	.99942	.99942	.99942	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.19	.99248	.99418	.99444	.99470	.99474	.99570	.99688	.99798	.99798	.99942	.99942	.99942	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996
0.20	.99352	.99522	.99548	.99574	.99574	.99612	.99688	.99798	.99798	.99942	.99942	.99942	.99942	.99942	.99946	.99996	.99996	.99996	.99996	.99996

Powers of $KS - V$ Sequential test against Exponential for $n = 50$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.63436	.85748	.92862	.96898	.98598	.99042	.99100	.99306	.99306	.99306	.99494	.99494	.99494	.99794	.99794	.99794	1.0	1.0	1.0
0.02	.56950	.79832	.91234	.96472	.98102	.99302	.99744	.99788	.99780	.99780	.99780	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.03	.77716	.88376	.94442	.97222	.98688	.99626	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.04	.85286	.92410	.95208	.97620	.98688	.99626	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.05	.92056	.95248	.96800	.98566	.99312	.99626	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.06	.94744	.95434	.96932	.98680	.99348	.99626	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.07	.95964	.96448	.97298	.98978	.99598	.99876	.99876	.99876	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.08	.96352	.96836	.97590	.98990	.99610	.99888	.99888	.99888	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.09	.96510	.96986	.97590	.98990	.99610	.99888	.99888	.99888	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.10	.96874	.97350	.97728	.99128	.99610	.99888	.99888	.99888	.99888	.99888	.99888	.99950	.99950	.99950	.99992	.99992	.99992	1.0	1.0	1.0
0.11	.97308	.97784	.98110	.99394	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.12	.98246	.98282	.98420	.99404	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.13	.98282	.98282	.98420	.99404	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.14	.99166	.99166	.99292	.99732	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.15	.99166	.99166	.99292	.99732	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.16	.99166	.99166	.99292	.99732	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.17	.99436	.99436	.99436	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.18	.99460	.99460	.99460	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.19	.99876	.99876	.99876	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0
0.20	.99876	.99876	.99876	.99876	.99930	.99930	.99930	.99930	.99930	.99930	.99930	.99992	.99992	.99992	.99992	.99992	.99992	1.0	1.0	1.0

Table F.3 (Continued)

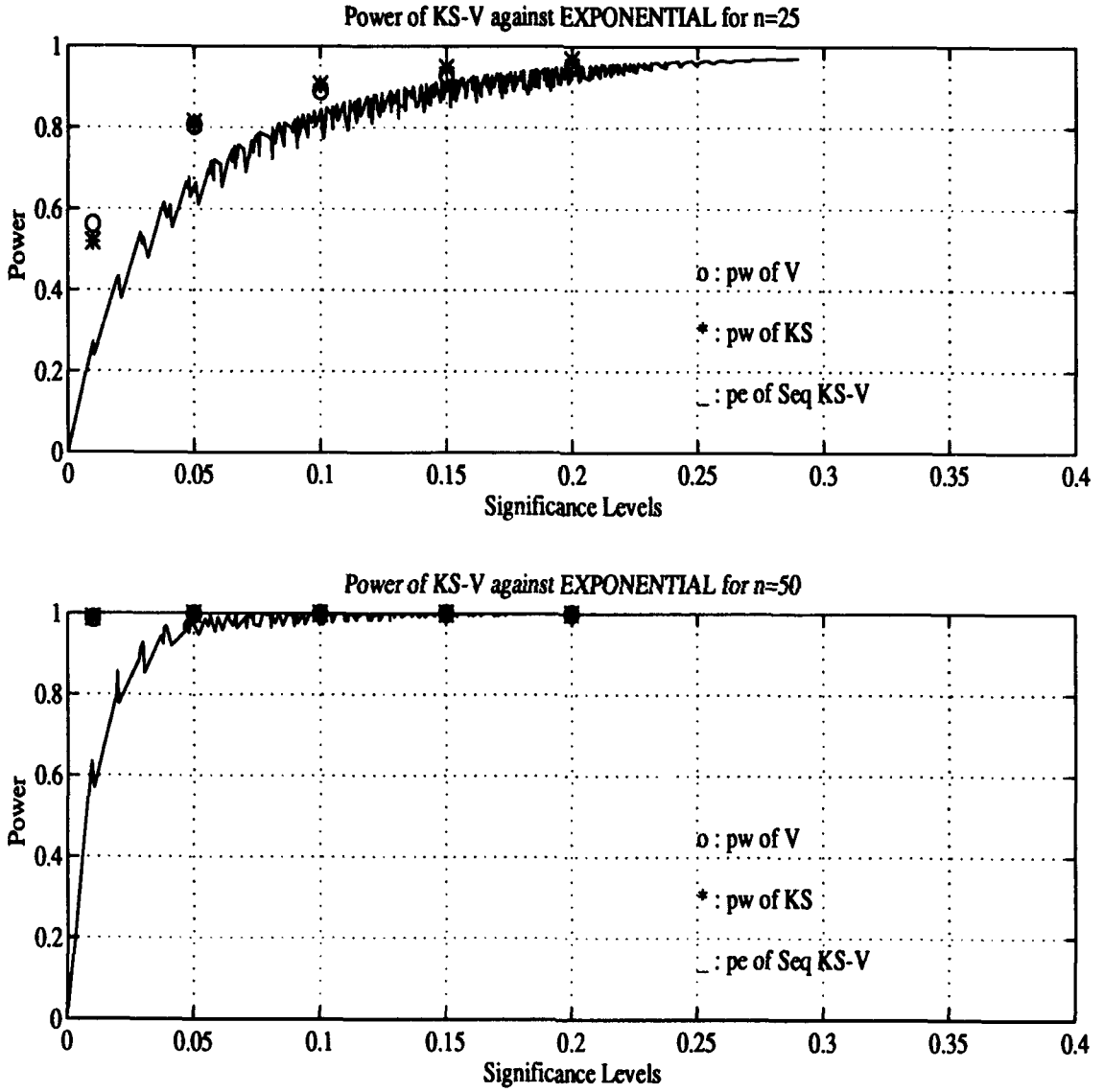

Figure F.2 Power comparisons of $KS - V$ against Exponential

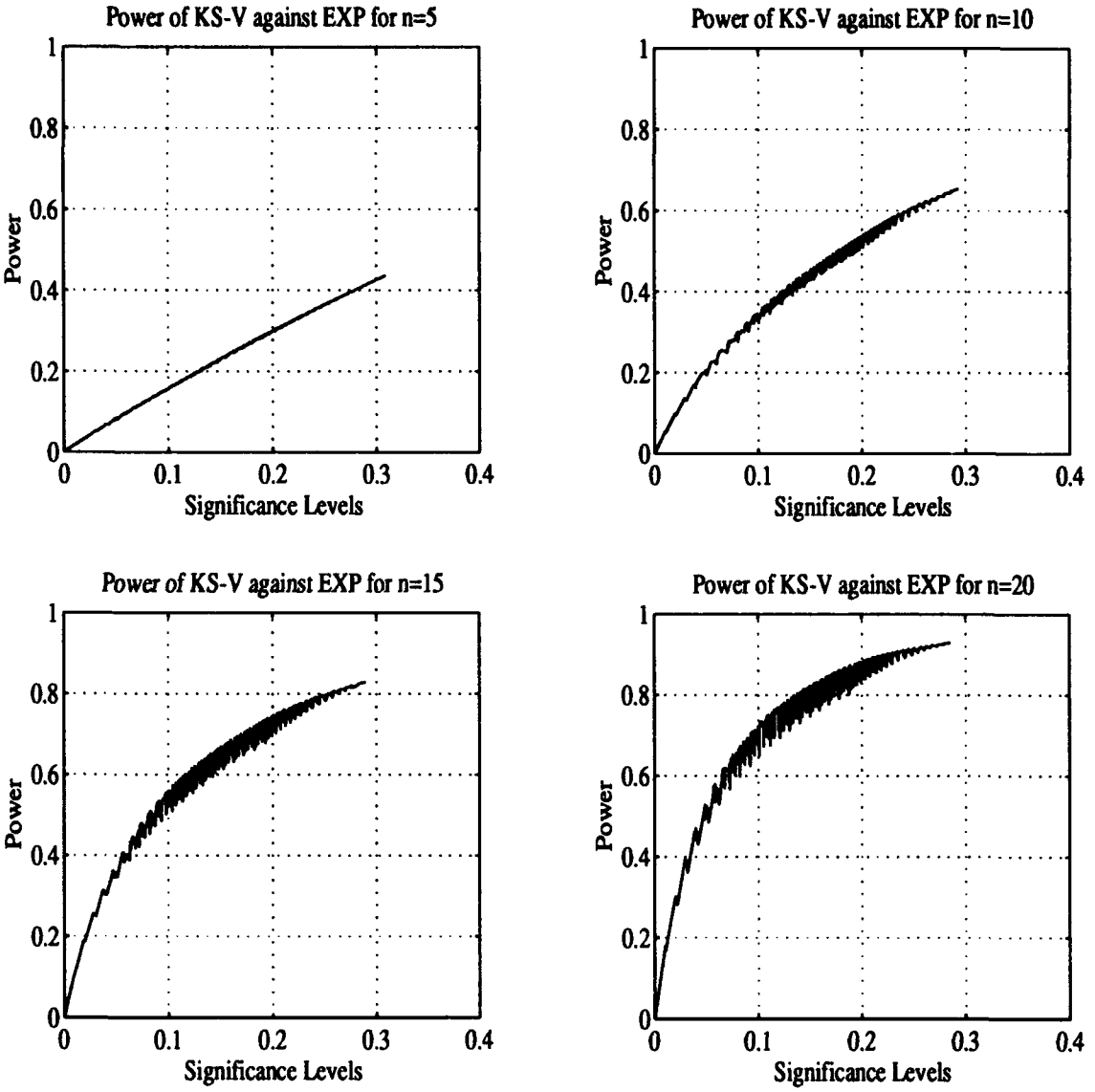

Figure F.2 (Continued)

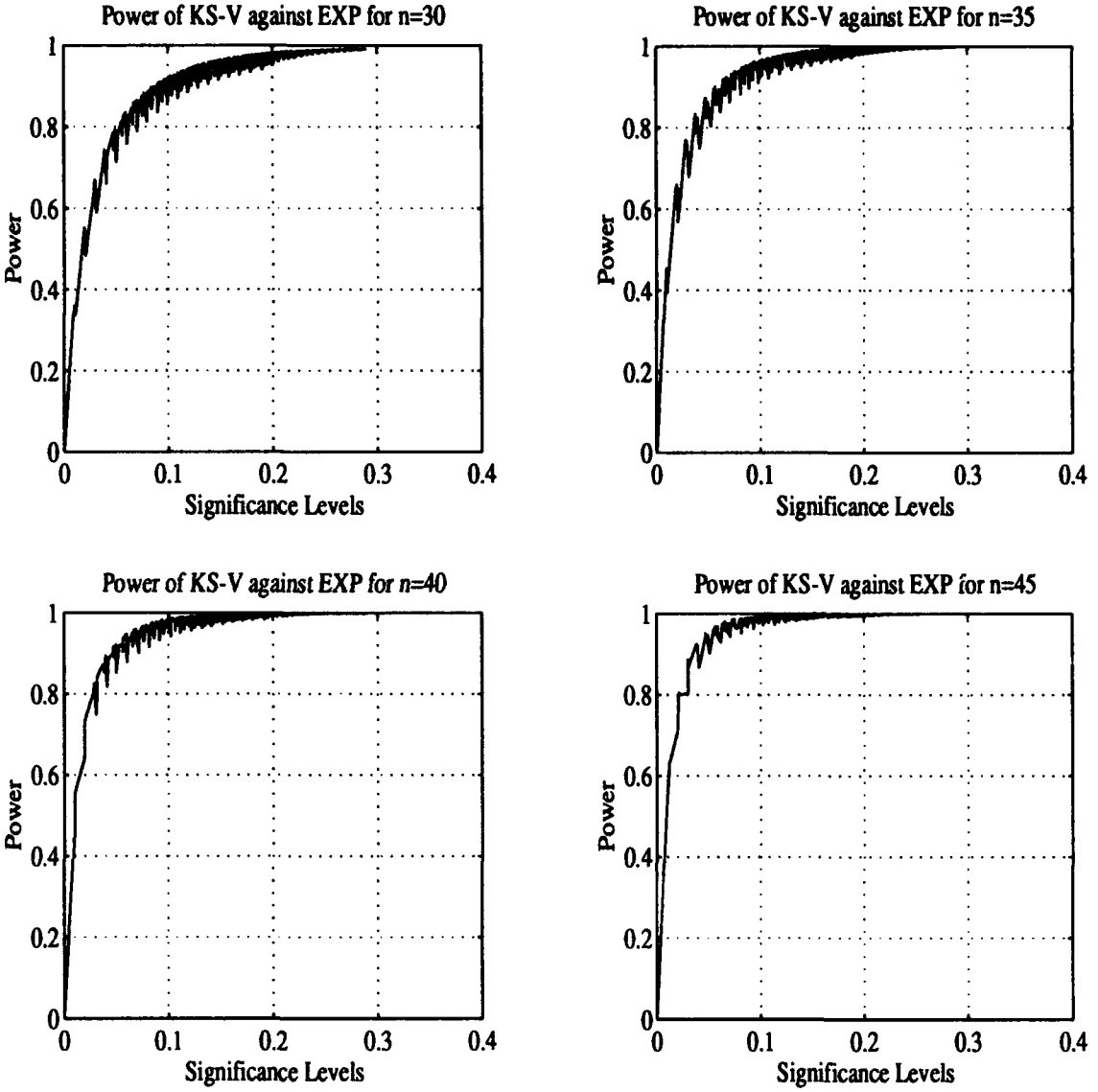

Figure F.2 (Continued)

Powers of $KS - V$ Sequential test against Beta for $n = 5$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00842	.01732	.02628	.03536	.04446	.05510	.06554	.07642	.08748	.09804	.10960	.12030	.13136	.14322	.15402	.16492	.17502	.18632	.19690
0.02	.01782	.02542	.03360	.04204	.05064	.05920	.06934	.07934	.08966	.10020	.11030	.12132	.13150	.14230	.15380	.16432	.17490	.18460	.19552	.20576
0.03	.03272	.04000	.04764	.05574	.06396	.07226	.08192	.09140	.10130	.11156	.12136	.13212	.14192	.15230	.16344	.17370	.18400	.19328	.20390	.21392
0.04	.04794	.05450	.06158	.06930	.07698	.08492	.09422	.10338	.11296	.12278	.13226	.14282	.15228	.16238	.17328	.18316	.19316	.20224	.21262	.22246
0.05	.06308	.06890	.07534	.08266	.08994	.09764	.10650	.11516	.12436	.13394	.14308	.15312	.16222	.17208	.18250	.19220	.20198	.21076	.22088	.23044
0.06	.07948	.08450	.09046	.09720	.10392	.11124	.11966	.12806	.13696	.14610	.15480	.16444	.17332	.18280	.19290	.20228	.21170	.22022	.23012	.23942
0.07	.09242	.09708	.10276	.10902	.11548	.12246	.13042	.13856	.14726	.15612	.16450	.17380	.18258	.19186	.20182	.21096	.21996	.22832	.23796	.24706
0.08	.10566	.10980	.11518	.12088	.12698	.13364	.14136	.14922	.15762	.16626	.17442	.18334	.19190	.20102	.21078	.21960	.22832	.23650	.24602	.25500
0.09	.12038	.12414	.12912	.13436	.14006	.14632	.15372	.16132	.16936	.17770	.18566	.19432	.20264	.21154	.22108	.22976	.23828	.24608	.25542	.26416
0.10	.13342	.13680	.14142	.14636	.15154	.15744	.16442	.17172	.17952	.18764	.19526	.20376	.21180	.22030	.22954	.23790	.24616	.25384	.26282	.27136
0.11	.14754	.15060	.15492	.15940	.16430	.16990	.17658	.18358	.19096	.19874	.20604	.21428	.22208	.23028	.23928	.24746	.25548	.26284	.27152	.27992
0.12	.16236	.16500	.16896	.17314	.17764	.18280	.18888	.19548	.20256	.21008	.21712	.22498	.23250	.24032	.24916	.25712	.26498	.27220	.28078	.28880
0.13	.17590	.17830	.18188	.18560	.18992	.19484	.20054	.20690	.21368	.22084	.22760	.23536	.24262	.25014	.25882	.26656	.27422	.28122	.28946	.29744
0.14	.19000	.19210	.19528	.19894	.20264	.20744	.21280	.21878	.22530	.23218	.23864	.24616	.25318	.26040	.26882	.27630	.28368	.29052	.29850	.30630
0.15	.20276	.20454	.20744	.21086	.21432	.21878	.22386	.22946	.23556	.24196	.24812	.25538	.26204	.26906	.27714	.28446	.29168	.29824	.30610	.31370
0.16	.21674	.21836	.22092	.22410	.22730	.23156	.23622	.24134	.24716	.25316	.25906	.26604	.27250	.27928	.28710	.29422	.30114	.30746	.31514	.32260
0.17	.23038	.23184	.23418	.23710	.24000	.24396	.24836	.25328	.25878	.26442	.27004	.27678	.28310	.28966	.29720	.30394	.31048	.31662	.32406	.33114
0.18	.24308	.24430	.24642	.24910	.25180	.25550	.25962	.26428	.26958	.27504	.28050	.28694	.29302	.29936	.30676	.31336	.31960	.32542	.33268	.33940
0.19	.25646	.25750	.25940	.26174	.26428	.26770	.27162	.27598	.28092	.28616	.29134	.29746	.30338	.30938	.31658	.32292	.32890	.33456	.34164	.34818
0.20	.26930	.27020	.27194	.27398	.27630	.27956	.28324	.28724	.29198	.29700	.30184	.30774	.31330	.31906	.32588	.33200	.33774	.34324	.35016	.35644

Powers of $KS - V$ Sequential test against Beta for $n = 10$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01194	.02494	.03660	.04740	.05894	.07010	.08160	.09336	.10478	.11550	.12932	.14152	.15344	.16648	.17924	.19106	.20346	.21622	.22832
0.02	.03906	.04788	.05832	.06814	.07708	.08682	.09674	.10702	.11750	.12798	.13742	.15002	.16134	.17230	.18430	.19614	.20704	.21870	.23052	.24184
0.03	.07292	.07966	.08810	.09614	.10384	.11206	.12072	.13000	.13940	.14892	.15746	.16894	.17940	.18954	.20054	.21150	.22186	.23264	.24404	.25486
0.04	.10366	.10908	.11602	.12286	.12944	.13680	.14430	.15288	.16108	.16986	.17760	.18824	.19796	.20738	.21768	.22770	.23736	.24770	.25812	.26846
0.05	.13360	.13822	.14378	.14968	.15546	.16182	.16816	.17584	.18330	.19112	.19798	.20750	.21634	.22494	.23446	.24382	.25298	.26276	.27258	.28232
0.06	.15974	.16384	.16874	.17362	.17850	.18380	.18942	.19608	.20284	.20992	.21638	.22506	.23324	.24116	.25002	.25884	.26752	.27670	.28606	.29508
0.07	.18792	.19176	.19612	.20024	.20428	.20880	.21360	.21982	.22572	.23222	.23806	.24610	.25370	.26108	.26932	.27756	.28558	.29404	.30288	.31122
0.08	.21378	.21734	.22134	.22486	.22834	.23220	.23658	.24214	.24762	.25354	.25870	.26596	.27298	.27978	.28720	.29478	.30220	.31004	.31814	.32606
0.09	.23740	.24070	.24432	.24748	.25064	.25414	.25814	.26314	.26810	.27344	.27798	.28446	.29082	.29710	.30406	.31124	.31802	.32524	.33292	.34040
0.10	.25850	.26166	.26502	.26782	.27058	.27358	.27716	.28154	.28618	.29110	.29530	.30134	.30732	.31316	.31974	.32658	.33302	.33980	.34682	.35392
0.11	.27926	.28230	.28544	.28798	.29046	.29308	.29634	.30032	.30444	.30884	.31266	.31836	.32376	.32930	.33542	.34190	.34798	.35434	.36094	.36754
0.12	.29696	.29990	.30278	.30524	.30752	.30976	.31278	.31636	.32010	.32420	.32766	.33310	.33818	.34324	.34898	.35516	.36088	.36678	.37300	.37916
0.13	.31624	.31908	.32176	.32400	.32614	.32808	.33092	.33400	.33748	.34130	.34450	.34934	.35388	.35858	.36402	.36984	.37532	.38088	.38690	.39272
0.14	.33470	.33748	.34006	.34224	.34422	.34596	.34868	.35148	.35470	.35826	.36118	.36560	.36978	.37432	.37946	.38490	.38988	.39528	.40090	.40646
0.15	.35264	.35532	.35788	.35988	.36176	.36340	.36586	.36840	.37150	.37478	.37748	.38168	.38548	.38998	.39486	.40000	.40462	.40962	.41494	.42020
0.16	.36926	.37188	.37436	.37618	.37792	.37948	.38170	.38402	.38678	.38990	.39246	.39636	.40014	.40422	.40880	.41352	.41784	.42252	.42758	.43274
0.17	.38474	.38732	.38974	.39148	.39310	.39454	.39666	.39884	.40148	.40424	.40662	.41032	.41392	.41784	.42202	.42644	.43062	.43512	.43988	.44478
0.18	.40080	.40302	.40530	.40698	.40846	.40978	.41180	.41384	.41626	.41878	.42090	.42426	.42760	.43132	.43522	.43944	.44336	.44758	.45210	.45674
0.19	.41536	.41758	.42014	.42174	.42312	.42442	.42628	.42822	.43046	.43274	.43472	.43772	.44090	.44432	.44802	.45206	.45578	.45974	.46396	.46836
0.20	.43072	.43312	.43536	.43688	.43822	.43944	.44114	.44294	.44502	.44712	.44894	.45178	.45446	.45762	.46130	.46508	.46862	.47230	.47628	.48044

Table F.3 Power tables of $KS - V$ against Beta ditribution

Powers of $KS - V$ Sequential test against Beta for n = 15

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01606	.03098	.04630	.06096	.07648	.09360	.10808	.12134	.13592	.15154	.16786	.18304	.19882	.21518	.23042	.24502	.26088	.27540	.29086
0.02	.07284	.08534	.09712	.10882	.12032	.13288	.14680	.15862	.16974	.18194	.19528	.20932	.22246	.23634	.25042	.26386	.27644	.28984	.30254	.31624
0.03	.13672	.14754	.15678	.16626	.17592	.18620	.19744	.20712	.21688	.22694	.23788	.24946	.26094	.27294	.28524	.29670	.30758	.31950	.33082	.34304
0.04	.18840	.19806	.20572	.21378	.22200	.23074	.24014	.24842	.25694	.26564	.27516	.28518	.29530	.30566	.31642	.32650	.33624	.34684	.35710	.36782
0.05	.23168	.24070	.24768	.25452	.26172	.26914	.27720	.28454	.29174	.29944	.30760	.31666	.32550	.33470	.34442	.35324	.36200	.37164	.38104	.39088
0.06	.27016	.27860	.28496	.29106	.29720	.30394	.31084	.31732	.32372	.33052	.33808	.34588	.35368	.36194	.37078	.37948	.38834	.39514	.40356	.41322
0.07	.30602	.31402	.31994	.32554	.33094	.33678	.34272	.34826	.35402	.35996	.36680	.37362	.38042	.38776	.39540	.40232	.40942	.41734	.42506	.43292
0.08	.33672	.34436	.34992	.35508	.35996	.36504	.37050	.37532	.38044	.38576	.39202	.39806	.40424	.41090	.41788	.42428	.43084	.43798	.44504	.45216
0.09	.36710	.37432	.37966	.38450	.38914	.39370	.39874	.40318	.40786	.41272	.41824	.42360	.42918	.43508	.44136	.44702	.45310	.45950	.46600	.47260
0.10	.39596	.40282	.40784	.41244	.41676	.42092	.42546	.42948	.43354	.43800	.44272	.44746	.45246	.45774	.46340	.46836	.47388	.47976	.48558	.49160
0.11	.42140	.42790	.43270	.43696	.44106	.44496	.44920	.45280	.45646	.46038	.46448	.46882	.47332	.47818	.48326	.48772	.49262	.49818	.50324	.50874
0.12	.44414	.45044	.45496	.45900	.46282	.46660	.47048	.47376	.47712	.48074	.48440	.48838	.49236	.49692	.50140	.50546	.51010	.51516	.51984	.52490
0.13	.46604	.47202	.47632	.48012	.48368	.48728	.49092	.49404	.49722	.50052	.50404	.50768	.51120	.51534	.51944	.52318	.52746	.53192	.53622	.54082
0.14	.48562	.49142	.49556	.49922	.50262	.50608	.50954	.51240	.51536	.51850	.52174	.52498	.52828	.53208	.53586	.53920	.54312	.54724	.55120	.55536
0.15	.50494	.51060	.51448	.51798	.52122	.52452	.52782	.53056	.53334	.53632	.53934	.54228	.54534	.54882	.55228	.55534	.55902	.56282	.56634	.57006
0.16	.52352	.52892	.53264	.53600	.53910	.54216	.54532	.54790	.55054	.55334	.55618	.55884	.56170	.56494	.56802	.57080	.57406	.57746	.58100	.58444
0.17	.54056	.54574	.54932	.55260	.55556	.55850	.56148	.56392	.56640	.56894	.57156	.57410	.57672	.57956	.58244	.58492	.58798	.59136	.59450	.59770
0.18	.55692	.56194	.56540	.56850	.57134	.57408	.57696	.57928	.58160	.58398	.58640	.58874	.59124	.59384	.59658	.59886	.60174	.60482	.60766	.61052
0.19	.57298	.57796	.58126	.58420	.58698	.58960	.59240	.59464	.59682	.59900	.60130	.60344	.60566	.60802	.61060	.61282	.61540	.61822	.62074	.62332
0.20	.58880	.59360	.59682	.59962	.60236	.60488	.60754	.60970	.61172	.61370	.61590	.61784	.61992	.62202	.62434	.62624	.62876	.63138	.63360	.63598

Powers of $KS - V$ Sequential test against Beta for n = 20

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02194	.04240	.06288	.08340	.10570	.12536	.14710	.16766	.18914	.21012	.22942	.25094	.27022	.28862	.30720	.32438	.34214	.36276	.38044
0.02	.12216	.14016	.15558	.17156	.18690	.20340	.21848	.23532	.25118	.26798	.28432	.29950	.31678	.33238	.34706	.36156	.37566	.38992	.40688	.42128
0.03	.21230	.22762	.24026	.25306	.26542	.27926	.29124	.30418	.31668	.33062	.34408	.35644	.37056	.38372	.39602	.40822	.41980	.43194	.44596	.45820
0.04	.27926	.29306	.30420	.31566	.32618	.33804	.34808	.35884	.36926	.38106	.39256	.40322	.41512	.42636	.43684	.44744	.45752	.46794	.48006	.49044
0.05	.33490	.34778	.35772	.36792	.37708	.38758	.39638	.40578	.41480	.42506	.43460	.44372	.45422	.46370	.47256	.48188	.49056	.49962	.51062	.51974
0.06	.38384	.39598	.40506	.41412	.42228	.43178	.43970	.44800	.45620	.46490	.47310	.48130	.49050	.49840	.50616	.51442	.52204	.52996	.53948	.54724
0.07	.42572	.43698	.44558	.45410	.46148	.47030	.47728	.48472	.49206	.49978	.50718	.51416	.52190	.52890	.53576	.54292	.54962	.55638	.56442	.57150
0.08	.46154	.47204	.48008	.48786	.49476	.50278	.50912	.51590	.52270	.52944	.53620	.54258	.54952	.55576	.56176	.56822	.57434	.58038	.58792	.59416
0.09	.49380	.50376	.51138	.51856	.52476	.53212	.53800	.54414	.55032	.55640	.56268	.56856	.57466	.58010	.58552	.59116	.59666	.60198	.60884	.61452
0.10	.52248	.53174	.53888	.54566	.55152	.55842	.56388	.56950	.57522	.58080	.58652	.59190	.59758	.60258	.60746	.61236	.61732	.62210	.62832	.63320
0.11	.54778	.55656	.56328	.56962	.57508	.58154	.58654	.59180	.59698	.60210	.60738	.61236	.61746	.62202	.62646	.63094	.63554	.64000	.64560	.64998
0.12	.57366	.58172	.58802	.59392	.59886	.60504	.60972	.61456	.61930	.62410	.62888	.63334	.63796	.64220	.64622	.65016	.65442	.65830	.66348	.66740
0.13	.59562	.60326	.60924	.61494	.61962	.62528	.62970	.63422	.63858	.64310	.64756	.65162	.65590	.65984	.66350	.66702	.67090	.67444	.67916	.68286
0.14	.61738	.62450	.63020	.63544	.63982	.64516	.64928	.65350	.65764	.66182	.66596	.66960	.67346	.67708	.68046	.68362	.68716	.69038	.69482	.69810
0.15	.63568	.64246	.64796	.65288	.65708	.66214	.66596	.66990	.67368	.67762	.68150	.68478	.68830	.69168	.69484	.69790	.70114	.70406	.70818	.71120
0.16	.65476	.66116	.66644	.67116	.67510	.67994	.68360	.68740	.69102	.69480	.69842	.70150	.70470	.70784	.71062	.71330	.71628	.71896	.72260	.72544
0.17	.67196	.67812	.68322	.68770	.69142	.69592	.69942	.70296	.70634	.71000	.71336	.71622	.71918	.72206	.72466	.72704	.72980	.73214	.73552	.73806
0.18	.68746	.69334	.69820	.70244	.70590	.71028	.71372	.71710	.72028	.72368	.72686	.72952	.73226	.73490	.73744	.73958	.74218	.74434	.74746	.74976
0.19	.70286	.70850	.71298	.71696	.72022	.72440	.72762	.73078	.73382	.73702	.74006	.74260	.74512	.74770	.74998	.75194	.75428	.75628	.75918	.76134
0.20	.71734	.72270	.72692	.73060	.73374	.73776	.74066	.74362	.74650	.74962	.75250	.75490	.75730	.75966	.76172	.76356	.76556	.76752	.77026	.77216

Table F.4 (Continued)

Powers of $KS - V$ Sequential test against Beta for n = 25

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02894	.05776	.08566	.11698	.14474	.17202	.19970	.22654	.25246	.27700	.30094	.32374	.34826	.37368	.39536	.41840	.43946	.45946	.48006
0.02	.17054	.19364	.21594	.23664	.26006	.28016	.30046	.32114	.34120	.36022	.37846	.39634	.41376	.43224	.45162	.46812	.48602	.50202	.51804	.53446
0.03	.28014	.29986	.31868	.33590	.35494	.37144	.38764	.40444	.42068	.43604	.45118	.46536	.47928	.49442	.51006	.52366	.53840	.55160	.56466	.57826
0.04	.36624	.38350	.39964	.41452	.43062	.44470	.45858	.47260	.48596	.49848	.51072	.52266	.53420	.54676	.56014	.57132	.58342	.59406	.60500	.61612
0.05	.43314	.44852	.46258	.47550	.48980	.50208	.51396	.52572	.53712	.54796	.55880	.56868	.57866	.58952	.60106	.61064	.62096	.63004	.63918	.64876
0.06	.48846	.50208	.51474	.52656	.53918	.55014	.56074	.57112	.58102	.58990	.59926	.60766	.61612	.62568	.63564	.64390	.65252	.66042	.66812	.67644
0.07	.53144	.54382	.55522	.56584	.57726	.58722	.59686	.60616	.61500	.62294	.63118	.63860	.64600	.65460	.66314	.67026	.67810	.68488	.69166	.69910
0.08	.57156	.58306	.59354	.60338	.61374	.62258	.63142	.63974	.64738	.65442	.66166	.66826	.67492	.68240	.68970	.69580	.70264	.70866	.71448	.72098
0.09	.60412	.61476	.62440	.63334	.64274	.65078	.65898	.66654	.67342	.67980	.68642	.69230	.69842	.70514	.71172	.71712	.72328	.72848	.73382	.73966
0.10	.63550	.64538	.65428	.66214	.67094	.67840	.68604	.69288	.69902	.70500	.71098	.71624	.72174	.72772	.73360	.73844	.74374	.74830	.75324	.75828
0.11	.66128	.67054	.67898	.68632	.69442	.70136	.70848	.71472	.72046	.72598	.73156	.73636	.74144	.74704	.75228	.75676	.76142	.76556	.77004	.77470
0.12	.68338	.69208	.70010	.70698	.71462	.72108	.72778	.73344	.73876	.74384	.74906	.75362	.75834	.76340	.76814	.77236	.77656	.78034	.78444	.78856
0.13	.70524	.71334	.72068	.72724	.73440	.74026	.74642	.75158	.75658	.76130	.76598	.77014	.77460	.77924	.78358	.78754	.79138	.79476	.79840	.80212
0.14	.72448	.73206	.73894	.74512	.75194	.75744	.76332	.76796	.77268	.77702	.78144	.78522	.78930	.79354	.79758	.80108	.80474	.80764	.81092	.81426
0.15	.74360	.75054	.75698	.76282	.76910	.77424	.77960	.78408	.78844	.79246	.79666	.79992	.80350	.80744	.31120	.81442	.81770	.82028	.82328	.82620
0.16	.76196	.76816	.77418	.77958	.78546	.79006	.79502	.79908	.80314	.80686	.81066	.81382	.81680	.82040	.82372	.82676	.82972	.83204	.83482	.83780
0.17	.77824	.78394	.78964	.79482	.80030	.80456	.80918	.81292	.81672	.82018	.82376	.82652	.82954	.83290	.83588	.83856	.84132	.84354	.84610	.84862
0.18	.79236	.79784	.80330	.80816	.81330	.81734	.82166	.82524	.82882	.83200	.83546	.83792	.84074	.84382	.84666	.84910	.85174	.85368	.85600	.85840
0.19	.80404	.80926	.81456	.81928	.82420	.82814	.83222	.83564	.83908	.84218	.84544	.84772	.85028	.85312	.85580	.85816	.86064	.86244	.86456	.86674
0.20	.81542	.82024	.82532	.82982	.83446	.83818	.84206	.84536	.84864	.85152	.85460	.85680	.85930	.86196	.86456	.86684	.86914	.87072	.87268	.87464

Powers of $KS - V$ Sequential test against Beta for n = 30

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04226	.08598	.12458	.16144	.19938	.23458	.26690	.30130	.33400	.36352	.39474	.42228	.45192	.47814	.50330	.52438	.54834	.57214	.59442
0.02	.24716	.27750	.30904	.33712	.36278	.38844	.41286	.43486	.45902	.48160	.50210	.52330	.54206	.56284	.58082	.59812	.61300	.62930	.64590	.66176
0.03	.37714	.40196	.42802	.45114	.47166	.49240	.51170	.52922	.54852	.56606	.58194	.59852	.61266	.62864	.64238	.65576	.66676	.67918	.69276	.70516
0.04	.47350	.49492	.51678	.53598	.55324	.57018	.58598	.60062	.61634	.63068	.64314	.65620	.66786	.68020	.69112	.70156	.71062	.72056	.73110	.74110
0.05	.54072	.55892	.57820	.59508	.61028	.62522	.63872	.65144	.66486	.67678	.68722	.69874	.70798	.71638	.72772	.73640	.74374	.75194	.76002	.76908
0.06	.59354	.60980	.62708	.64226	.65560	.66872	.68060	.69166	.70366	.71360	.72254	.73258	.74032	.74910	.75702	.76414	.77042	.77752	.78518	.79226
0.07	.63976	.65434	.66954	.68316	.69512	.70674	.71716	.72714	.73746	.74618	.75390	.76262	.76936	.77664	.78340	.78952	.79496	.80086	.80752	.81330
0.08	.67718	.69022	.70396	.71622	.72694	.73690	.74650	.75524	.76448	.77226	.77924	.78696	.79286	.79896	.80476	.81022	.81490	.81982	.82542	.83036
0.09	.70758	.71924	.73182	.74294	.75268	.76168	.77052	.77838	.78676	.79370	.79998	.80688	.81214	.81744	.82276	.82768	.83176	.83618	.84076	.84508
0.10	.73612	.74650	.75800	.76796	.77682	.78496	.79282	.80002	.80748	.81356	.81910	.82516	.82982	.83426	.83898	.84328	.84682	.85088	.85486	.85870
0.11	.75932	.76880	.77950	.78868	.79666	.80402	.81102	.81760	.82432	.82998	.83506	.84058	.84482	.84874	.85306	.85690	.86082	.86358	.86696	.87052
0.12	.77870	.78748	.79732	.80572	.81330	.82004	.82650	.83262	.83876	.84386	.84832	.85332	.85726	.86098	.86496	.86834	.87090	.87418	.87736	.88046
0.13	.79572	.80388	.81276	.82042	.82726	.83362	.83966	.84536	.85100	.85586	.85972	.86416	.86786	.87128	.87486	.87810	.88052	.88350	.88632	.88900
0.14	.81228	.81966	.82798	.83498	.84124	.84724	.85278	.85792	.86326	.86746	.87124	.87524	.87862	.88166	.88498	.88790	.89010	.89278	.89530	.89776
0.15	.82594	.83288	.84058	.84714	.85300	.85858	.86378	.86860	.87362	.87758	.88110	.88478	.88788	.89062	.89372	.89658	.89860	.90102	.90324	.90544
0.16	.84026	.84660	.85370	.85972	.86510	.86996	.87466	.87916	.88372	.88726	.89048	.89388	.89668	.89912	.90186	.90442	.90628	.90854	.91062	.91282
0.17	.85210	.85806	.86462	.87028	.87530	.87972	.88384	.88804	.89222	.89556	.89856	.90170	.90416	.90640	.90894	.91114	.91288	.91496	.91694	.91878
0.18	.86366	.86918	.87530	.88042	.88510	.88926	.89306	.89694	.90082	.90390	.90668	.90952	.91184	.91384	.91614	.91822	.91978	.92164	.92332	.92506
0.19	.87524	.88032	.88588	.89068	.89490	.89876	.90232	.90584	.90922	.91194	.91444	.91704	.91918	.92096	.92316	.92504	.92644	.92810	.92968	.93128
0.20	.88524	.88968	.89474	.89924	.90328	.90686	.90998	.91340	.91650	.91912	.92130	.92370	.92572	.92744	.92938	.93112	.93244	.93400	.93532	.93680

Table F.4 (Continued)

Powers of $KS - V$ Sequential test against Beta for n = 35

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.05758	.11364	.16774	.21896	.26466	.31232	.35142	.39090	.42618	.46274	.49598	.52548	.55486	.58396	.61270	.63792	.66036	.68148	.70190
0.02	.29604	.33664	.37568	.41264	.44746	.47784	.50930	.53504	.56124	.58386	.60652	.62806	.64702	.66580	.68490	.70316	.72046	.73636	.74894	.76166
0.03	.46284	.49404	.52304	.55044	.57602	.59962	.62288	.64144	.66096	.67722	.69374	.70962	.72318	.73662	.75018	.76286	.77536	.78636	.79628	.80586
0.04	.57098	.59580	.61836	.63966	.65998	.67782	.69596	.71034	.72574	.73892	.75198	.76420	.77452	.78506	.79568	.80548	.81506	.82328	.83032	.83776
0.05	.64486	.66566	.68460	.70244	.71902	.73400	.74862	.76026	.77268	.78318	.79386	.80368	.81198	.82068	.82916	.83682	.84422	.85042	.85622	.86216
0.06	.69852	.71658	.73274	.74766	.76162	.77424	.78668	.79626	.80674	.81522	.82424	.83218	.83926	.84662	.85320	.85958	.86558	.87070	.87542	.87990
0.07	.73974	.75542	.76928	.78178	.79368	.80452	.81516	.82346	.83258	.83996	.84736	.85410	.86018	.86622	.87194	.87738	.88246	.88656	.89052	.89416
0.08	.77574	.78884	.80058	.81136	.82178	.83118	.84066	.84766	.85514	.86174	.86790	.87338	.87860	.88362	.88854	.89306	.89742	.90076	.90392	.90702
0.09	.80228	.81384	.82428	.83382	.84320	.85156	.85990	.86626	.87258	.87842	.88378	.88850	.89292	.89692	.90116	.90486	.90844	.91136	.91428	.91682
0.10	.82266	.83304	.84234	.85080	.85918	.86662	.87424	.87996	.88560	.89084	.89554	.89986	.90380	.90746	.91112	.91430	.91740	.92004	.92268	.92490
0.11	.84008	.84934	.85762	.86540	.87304	.87978	.88660	.89194	.89696	.90160	.90584	.90970	.91328	.91648	.91994	.92280	.92546	.92768	.92998	.93188
0.12	.85750	.86584	.87312	.88014	.88684	.89298	.89900	.90384	.90822	.91258	.91610	.91946	.92266	.92556	.92858	.93112	.93356	.93556	.93762	.93920
0.13	.87436	.88160	.88806	.89408	.89982	.90532	.91084	.91502	.91886	.92266	.92572	.92862	.93134	.93398	.93672	.93882	.94096	.94264	.94442	.94576
0.14	.88694	.89360	.89954	.90484	.91006	.91492	.91974	.92360	.92712	.93054	.93326	.93590	.93840	.94080	.94332	.94514	.94704	.94858	.95018	.95146
0.15	.89796	.90406	.90932	.91404	.91860	.92296	.92730	.93088	.93408	.93732	.93978	.94210	.94432	.94638	.94862	.95026	.95196	.95326	.95466	.95576
0.16	.90648	.91214	.91722	.92152	.92574	.92962	.93358	.93682	.93980	.94274	.94500	.94720	.94928	.95110	.95322	.95474	.95626	.95744	.95860	.95956
0.17	.91582	.92102	.92564	.92948	.93330	.93662	.94004	.94302	.94572	.94838	.95052	.95252	.95438	.95608	.95788	.95922	.96058	.96160	.96264	.96352
0.18	.92454	.92918	.93334	.93678	.94028	.94314	.94628	.94900	.95130	.95362	.95566	.95738	.95892	.96036	.96198	.96310	.96434	.96530	.96620	.96700
0.19	.93122	.93526	.93896	.94218	.94524	.94780	.95078	.95314	.95528	.95732	.95918	.96072	.96218	.96352	.96512	.96608	.96726	.96814	.96896	.96966
0.20	.93804	.94154	.94498	.94780	.95054	.95276	.95534	.95746	.95940	.96126	.96294	.96434	.96576	.96694	.96834	.96920	.97032	.97112	.97190	.97252

Powers of $KS - V$ Sequential test against Beta for n = 40

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.08480	.15664	.22782	.28528	.34176	.39162	.44214	.48690	.52946	.56638	.59954	.63304	.66210	.68834	.71434	.73730	.75838	.77472	.79238
0.02	.36248	.41586	.46232	.50644	.54214	.57680	.60720	.63814	.66622	.69148	.71336	.73312	.75312	.77060	.78560	.80110	.81414	.82586	.83670	.84742
0.03	.53340	.57174	.60540	.63798	.66372	.68888	.71150	.73300	.75300	.77018	.78544	.79944	.81292	.82474	.83502	.84580	.85526	.86330	.87110	.87878
0.04	.64558	.67440	.70000	.72474	.74416	.76322	.78036	.79666	.81156	.82448	.83550	.84558	.85524	.86404	.87134	.87954	.88638	.89214	.89798	.90370
0.05	.71288	.73598	.75702	.77734	.79304	.80796	.82194	.83502	.84692	.85736	.86620	.87464	.88198	.88848	.89412	.90084	.90616	.91082	.91552	.91970
0.06	.76004	.77940	.79704	.81418	.82724	.83968	.85150	.86240	.87178	.88056	.88786	.89482	.90080	.90610	.91060	.91610	.92014	.92406	.92780	.93102
0.07	.80344	.81950	.83414	.84768	.85844	.86848	.87846	.88744	.89508	.90222	.90762	.91330	.91810	.92246	.92592	.93042	.93370	.93670	.93980	.94224
0.08	.83608	.84956	.86200	.87320	.88220	.89036	.89860	.90580	.91202	.91808	.92240	.92708	.93122	.93486	.93784	.94148	.94420	.94658	.94904	.95100
0.09	.85776	.86960	.88020	.88978	.89750	.90456	.91162	.91806	.92336	.92884	.93242	.93642	.94018	.94326	.94592	.94902	.95114	.95318	.95528	.95700
0.10	.87730	.88760	.89670	.90492	.91150	.91744	.92378	.92926	.93392	.93848	.94156	.94498	.94816	.95090	.95330	.95592	.95770	.95938	.96110	.96260
0.11	.89404	.90288	.91100	.91814	.92400	.92902	.93464	.93920	.94330	.94728	.94998	.95284	.95550	.95780	.95974	.96194	.96340	.96488	.96640	.96782
0.12	.90798	.91572	.92270	.92868	.93392	.93822	.94294	.94686	.95042	.95388	.95624	.95866	.96096	.96292	.96466	.96662	.96782	.96914	.97040	.97134
0.13	.91750	.92428	.93058	.93582	.94062	.94440	.94858	.95214	.95544	.95846	.96060	.96282	.96488	.96680	.96836	.97004	.97108	.97220	.97338	.97416
0.14	.92578	.93190	.93764	.94242	.94668	.95016	.95400	.95708	.96002	.96266	.96458	.96666	.96850	.97020	.97164	.97312	.97402	.97506	.97616	.97690
0.15	.93346	.93898	.94420	.94860	.95252	.95564	.95920	.96188	.96456	.96688	.96862	.97054	.97222	.97376	.97504	.97640	.97728	.97812	.97908	.97972
0.16	.94108	.94592	.95060	.95468	.95808	.96074	.96372	.96604	.96844	.97048	.97202	.97364	.97512	.97650	.97770	.97888	.97974	.98052	.98144	.98194
0.17	.94628	.95084	.95518	.95894	.96206	.96452	.96720	.96928	.97144	.97318	.97460	.97600	.97736	.97864	.97972	.98066	.98144	.98218	.98306	.98356
0.18	.95124	.95516	.95928	.96266	.96546	.96766	.97010	.97204	.97404	.97558	.97696	.97824	.97944	.98060	.98162	.98232	.98300	.98370	.98454	.98500
0.19	.95482	.95858	.96230	.96556	.96820	.97028	.97254	.97438	.97622	.97766	.97890	.98002	.98116	.98216	.98302	.98366	.98430	.98482	.98572	.98610
0.20	.95950	.96294	.96640	.96924	.97154	.97354	.97568	.97736	.97900	.98032	.98144	.98240	.98346	.98436	.98512	.98566	.98618	.98664	.98732	.98766

Table F.4 (Continued)

Powers of $KS - V$ Sequential test against Beta for $n = 45$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.12298	.21698	.29028	.36100	.42550	.47970	.53200	.57868	.62506	.66060	.69534	.72154	.75042	.77288	.79526	.81734	.83358	.84978	.86436
0.02	.43460	.50484	.55780	.59860	.63886	.67450	.70434	.73348	.75842	.78304	.80200	.82086	.83552	.85048	.86194	.87424	.88560	.89420	.90248	.90992
0.03	.61348	.66148	.69768	.72550	.75264	.77768	.79776	.81678	.83358	.85028	.86314	.87512	.88488	.89494	.90228	.91024	.91796	.92394	.92898	.93396
0.04	.71338	.74880	.77582	.79636	.81618	.83518	.84986	.86354	.87628	.88838	.89734	.90612	.91352	.92078	.92594	.93156	.93736	.94140	.94516	.94876
0.05	.78134	.80838	.82866	.84428	.85908	.87362	.88454	.89476	.90482	.91376	.92080	.92740	.93296	.93850	.94220	.94616	.95052	.95352	.95632	.95898
0.06	.82516	.84664	.86290	.87556	.88728	.89894	.90770	.91562	.92384	.93100	.93676	.94192	.94632	.95088	.95366	.95642	.95988	.96224	.96436	.96648
0.07	.85762	.87522	.88870	.89936	.90924	.91860	.92608	.93268	.93940	.94524	.94982	.95380	.95722	.96074	.96272	.96496	.96750	.96920	.97080	.97256
0.08	.87810	.89302	.90448	.91372	.92202	.93004	.93634	.94216	.94792	.95308	.95690	.96042	.96340	.96648	.96818	.97002	.97218	.97364	.97504	.97644
0.09	.89792	.91016	.91992	.92752	.93458	.94136	.94678	.95160	.95646	.96082	.96382	.96678	.96926	.97186	.97342	.97476	.97642	.97766	.97874	.98002
0.10	.91578	.92604	.93382	.94012	.94616	.95168	.95604	.95986	.96396	.96760	.96998	.97238	.97442	.97670	.97798	.97904	.98048	.98144	.98236	.98330
0.11	.92694	.93574	.94228	.94782	.95324	.95794	.96176	.96510	.96878	.97174	.97370	.97580	.97760	.97956	.98076	.98170	.98296	.98388	.98466	.98554
0.12	.93798	.94546	.95098	.95566	.96018	.96436	.96774	.97044	.97346	.97600	.97774	.97940	.98084	.98252	.98336	.98410	.98514	.98594	.98654	.98726
0.13	.94662	.95326	.95810	.96202	.96584	.96936	.97222	.97446	.97706	.97916	.98080	.98226	.98340	.98478	.98556	.98624	.98722	.98796	.98844	.98900
0.14	.95396	.95966	.96368	.96708	.97044	.97350	.97582	.97778	.98006	.98192	.98326	.98464	.98564	.98682	.98752	.98812	.98892	.98950	.98994	.99050
0.15	.96030	.96528	.96878	.97174	.97460	.97722	.97924	.98102	.98302	.98462	.98562	.98684	.98766	.98866	.98928	.98980	.99052	.99090	.99132	.99180
0.16	.96590	.97024	.97320	.97568	.97810	.98042	.98228	.98378	.98550	.98698	.98782	.98892	.98964	.99062	.99112	.99160	.99204	.99232	.99260	.99298
0.17	.97048	.97418	.97678	.97880	.98084	.98284	.98452	.98572	.98718	.98844	.98920	.99014	.99080	.99170	.99210	.99252	.99290	.99314	.99340	.99376
0.18	.97336	.97682	.97930	.98120	.98298	.98470	.98616	.98722	.98860	.98964	.99026	.99108	.99166	.99254	.99294	.99332	.99368	.99386	.99410	.99440
0.19	.97846	.98130	.98324	.98488	.98642	.98778	.98904	.98992	.99092	.99168	.99222	.99278	.99320	.99394	.99426	.99460	.99484	.99496	.99516	.99534
0.20	.98032	.98296	.98478	.98620	.98756	.98882	.99000	.99078	.99168	.99240	.99288	.99340	.99380	.99446	.99476	.99510	.99528	.99540	.99560	.99580

Powers of $KS - V$ Sequential test against Beta for $n = 50$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.14256	.26216	.35894	.44000	.51284	.57818	.63344	.67894	.71722	.74994	.77898	.80496	.82858	.84976	.86770	.88180	.89544	.90684	.91918
0.02	.48078	.55444	.61644	.66630	.70766	.74346	.77692	.80550	.82962	.84910	.86520	.87986	.89246	.90356	.91442	.92368	.93158	.93890	.94462	.95118
0.03	.65638	.70470	.74588	.77892	.80636	.83014	.85254	.87116	.88708	.89976	.91008	.91970	.92766	.93510	.94178	.94758	.95280	.95712	.96056	.96476
0.04	.75332	.78888	.81784	.84164	.86134	.87988	.89562	.90842	.91966	.92832	.93550	.94190	.94768	.95276	.95756	.96146	.96518	.96812	.97066	.97382
0.05	.82378	.84930	.86964	.88670	.90054	.91380	.92568	.93488	.94292	.94884	.95384	.95824	.96230	.96560	.96896	.97170	.97426	.97634	.97800	.98060
0.06	.86472	.88420	.90020	.91332	.92426	.93456	.94348	.95010	.95640	.96098	.96486	.96822	.97084	.97346	.97602	.97800	.98004	.98174	.98298	.98496
0.07	.89078	.90872	.91996	.93060	.93952	.94778	.95482	.96002	.96518	.96878	.97190	.97456	.97644	.97852	.98068	.98238	.98412	.98556	.98644	.98804
0.08	.91396	.92602	.93692	.94546	.95216	.95888	.96436	.96838	.97214	.97514	.97750	.97962	.98120	.98270	.98436	.98590	.98726	.98830	.98898	.99020
0.09	.92570	.93604	.94544	.95270	.95848	.96452	.96950	.97296	.97622	.97880	.98076	.98272	.98404	.98532	.98672	.98804	.98904	.98984	.99044	.99160
0.10	.93810	.94678	.95432	.96058	.96536	.97056	.97474	.97770	.98044	.98254	.98412	.98568	.98680	.98794	.98908	.99008	.99098	.99166	.99220	.99306
0.11	.94776	.95506	.96134	.96668	.97084	.97520	.97844	.98096	.98320	.98490	.98618	.98752	.98850	.98950	.99052	.99142	.99212	.99272	.99320	.99382
0.12	.95868	.96488	.96988	.97414	.97732	.98064	.98332	.98518	.98684	.98822	.98914	.99030	.99112	.99184	.99260	.99318	.99368	.99422	.99452	.99504
0.13	.96636	.97154	.97560	.97930	.98190	.98452	.98662	.98788	.98928	.99050	.99128	.99230	.99294	.99360	.99418	.99454	.99490	.99528	.99552	.99604
0.14	.97164	.97612	.97964	.98274	.98514	.98740	.98920	.99018	.99134	.99230	.99306	.99386	.99434	.99474	.99522	.99550	.99580	.99604	.99624	.99670
0.15	.97634	.98006	.98318	.98578	.98780	.98978	.99120	.99204	.99294	.99378	.99444	.99502	.99534	.99560	.99594	.99618	.99644	.99664	.99684	.99720
0.16	.97738	.98104	.98398	.98648	.98842	.99034	.99160	.99240	.99324	.99406	.99470	.99528	.99560	.99582	.99616	.99638	.99666	.99684	.99704	.99742
0.17	.97982	.98298	.98560	.98784	.98956	.99132	.99252	.99330	.99404	.99482	.99534	.99586	.99612	.99634	.99666	.99690	.99714	.99730	.99744	.99776
0.18	.98384	.98618	.98846	.99014	.99150	.99280	.99378	.99440	.99498	.99556	.99604	.99652	.99672	.99694	.99720	.99742	.99758	.99774	.99788	.99818
0.19	.98716	.98902	.99086	.99206	.99316	.99406	.99482	.99528	.99580	.99642	.99678	.99718	.99728	.99744	.99764	.99788	.99802	.99812	.99824	.99844
0.20	.98852	.99012	.99174	.99284	.99390	.99472	.99542	.99584	.99626	.99676	.99710	.99748	.99758	.99772	.99796	.99812	.99824	.99834	.99844	.99862

Table F.4 (Continued)

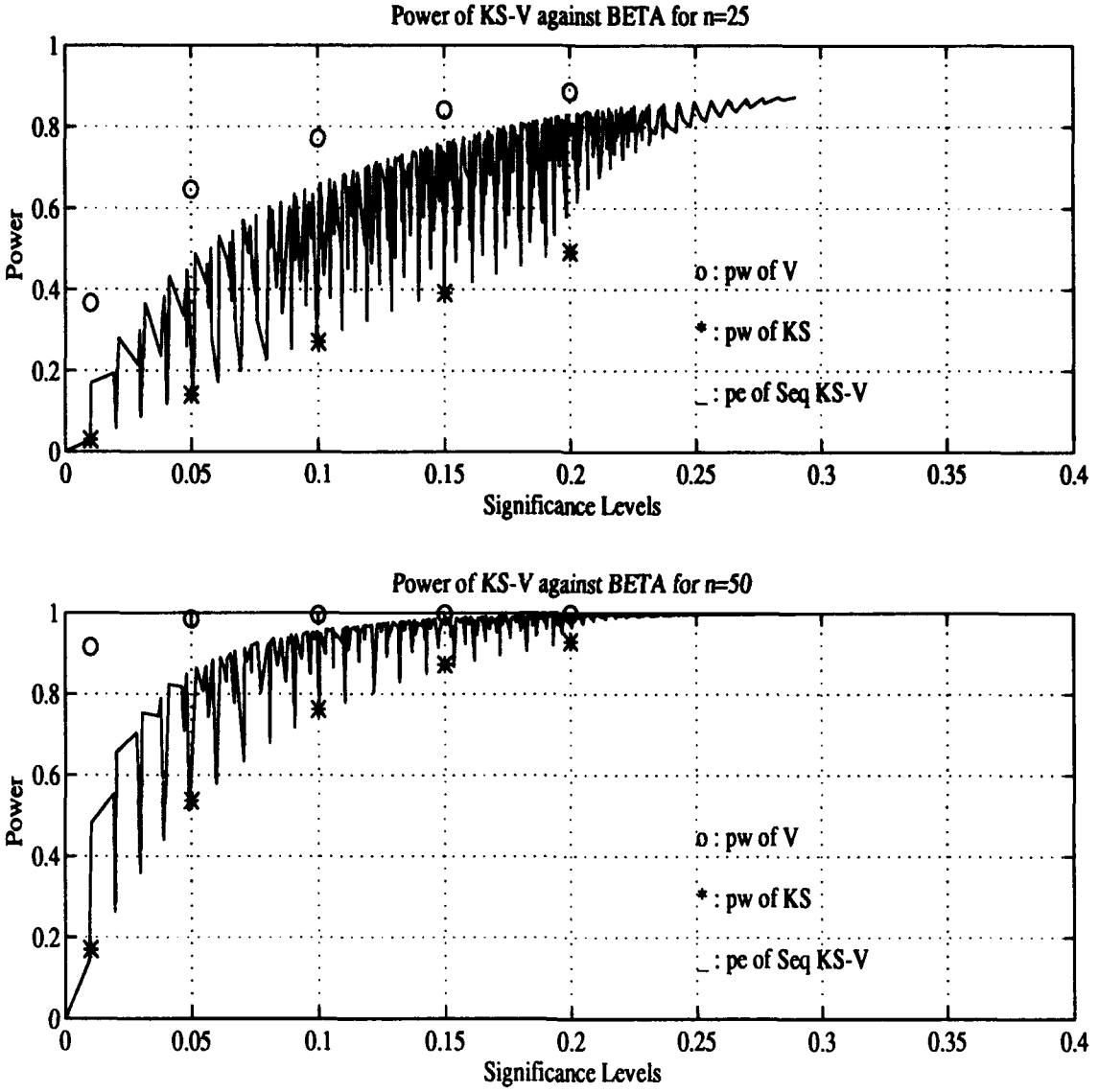

Figure F.3 Power comparisons of $KS - V$ against Beta

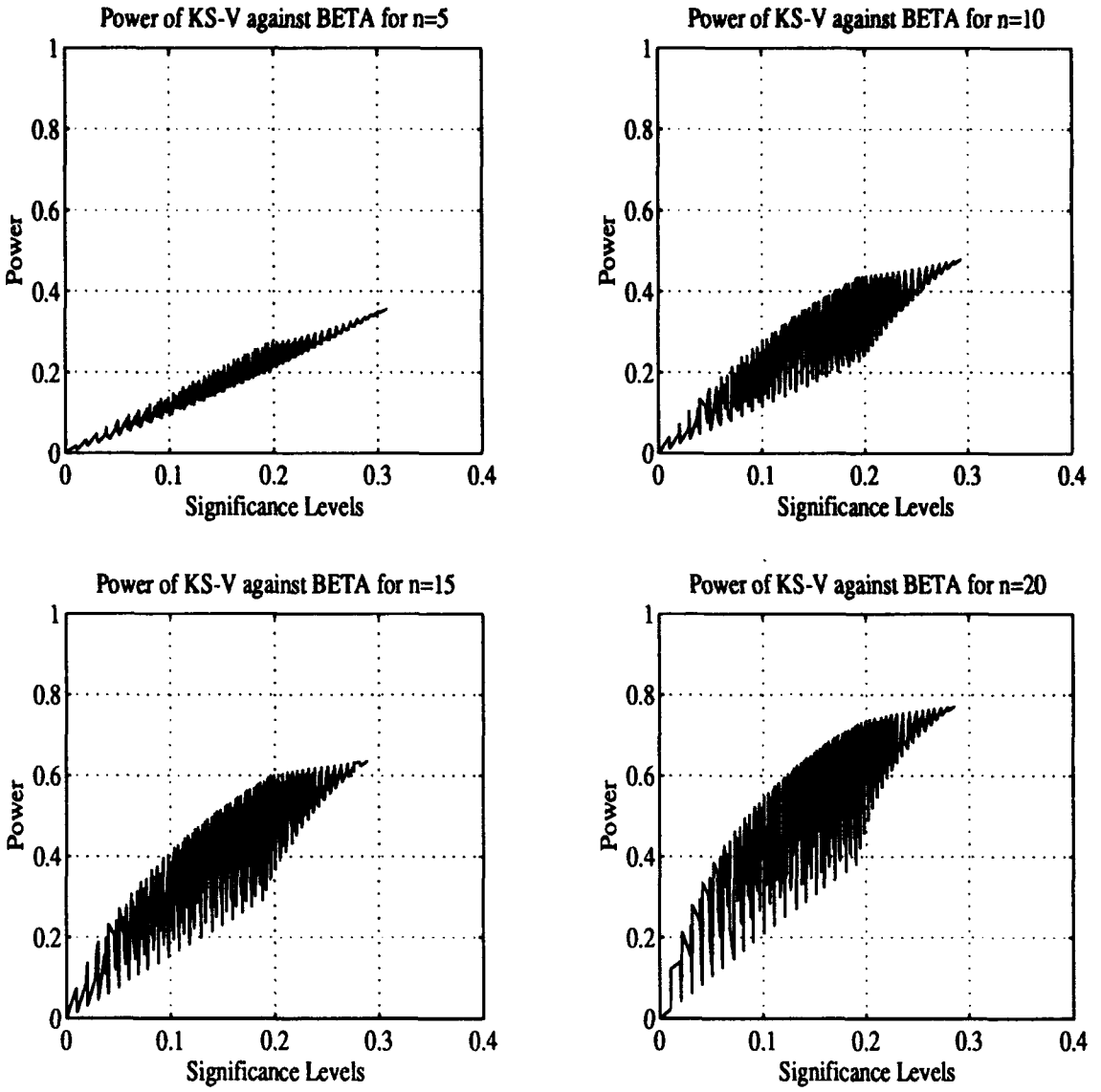

Figure F.3 (Continued)

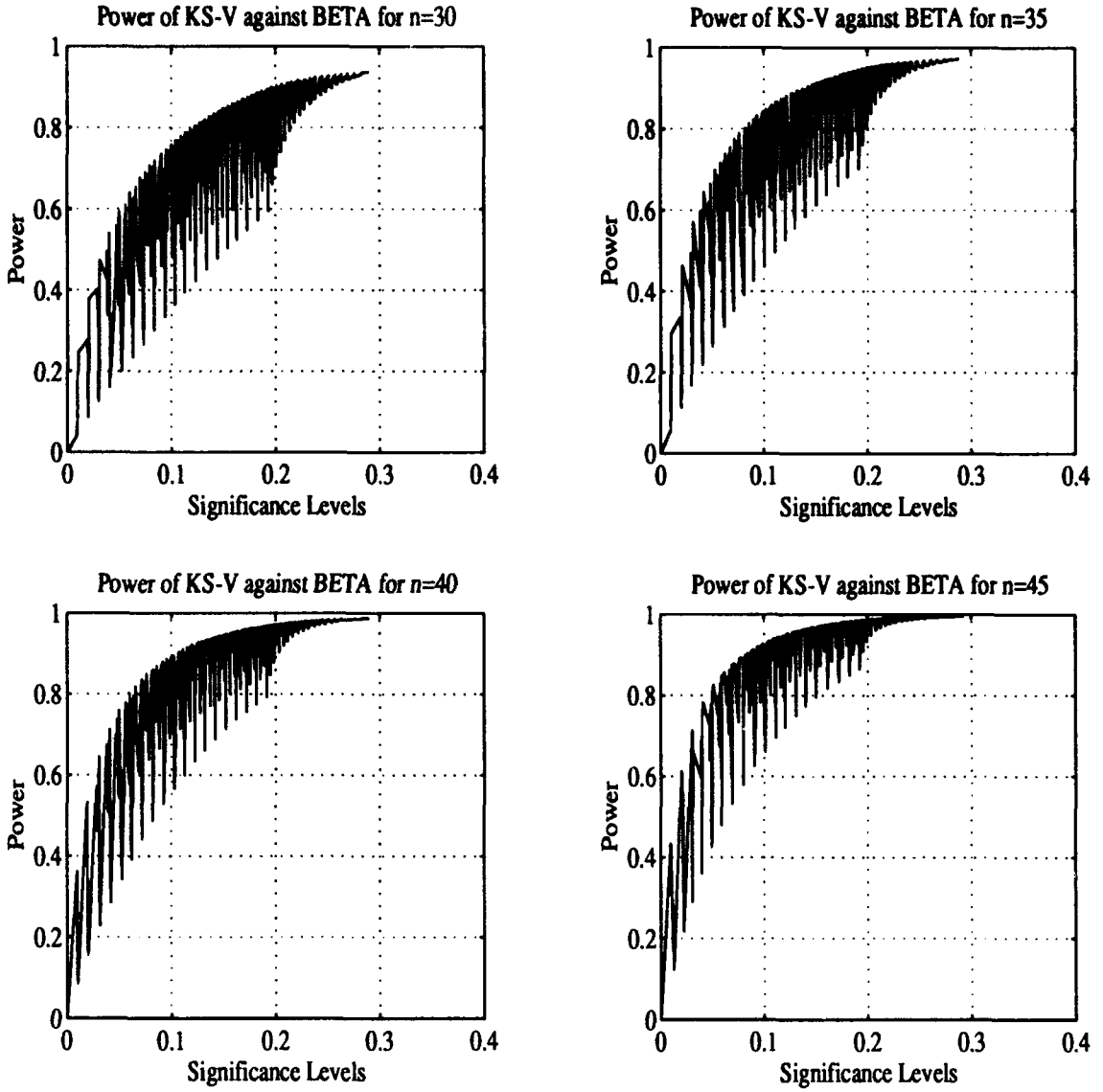

Figure F.3 (Continued)

Powers of $KS - V$ Sequential test against Gamma for $n = 5$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01072	.02094	.03320	.04448	.05560	.06766	.07888	.09070	.10444	.11608	.12972	.14512	.15250	.16592	.17778	.18880	.19966	.21180	.22276
0.02	.01582	.02558	.03504	.04652	.05722	.06792	.07952	.09034	.10176	.11484	.12620	.13940	.15058	.16164	.17470	.18630	.19708	.20776	.21976	.23042
0.03	.03076	.03964	.04858	.05936	.06956	.07988	.09112	.10164	.11278	.12554	.13660	.14948	.16034	.17102	.18386	.19516	.20568	.21618	.22780	.23830
0.04	.04604	.05430	.06260	.07286	.08270	.09264	.10342	.11356	.12442	.13686	.14750	.16008	.17072	.18102	.19356	.20460	.21486	.22520	.23638	.24676
0.05	.06002	.06766	.07542	.08520	.09464	.10420	.11476	.12454	.13516	.14744	.15780	.17012	.18054	.19036	.20260	.21336	.22354	.23348	.24436	.25446
0.06	.07500	.08190	.08934	.09862	.10750	.11654	.12666	.13610	.14646	.15836	.16858	.18068	.19080	.20040	.21218	.22268	.23246	.24248	.25308	.26252
0.07	.08792	.09420	.10122	.11004	.11844	.12698	.13672	.14588	.15580	.16730	.17728	.18918	.19912	.20856	.22002	.23034	.23972	.24960	.26000	.26964
0.08	.10140	.10732	.11380	.12208	.13012	.13824	.14768	.15646	.16600	.17730	.18698	.19852	.20828	.21736	.22864	.23844	.24790	.25764	.26784	.27708
0.09	.11572	.12096	.12694	.13468	.14234	.15026	.15932	.16782	.17694	.18772	.19714	.20834	.21786	.22676	.23776	.24766	.25660	.26598	.27582	.28500
0.10	.12952	.13416	.13976	.14690	.15422	.16186	.17052	.17866	.18744	.19798	.20714	.21802	.22752	.23608	.24684	.25644	.26524	.27438	.28404	.29308
0.11	.14410	.14826	.15346	.16030	.16732	.17456	.18294	.19080	.19930	.20946	.21820	.22878	.23784	.24634	.25676	.26616	.27474	.28368	.29316	.30188
0.12	.15776	.16154	.16640	.17290	.17956	.18654	.19466	.20208	.21028	.22002	.22850	.23874	.24762	.25584	.26596	.27508	.28352	.29218	.30144	.30996
0.13	.17146	.17488	.17932	.18548	.19136	.19828	.20588	.21312	.22108	.23062	.23892	.24878	.25748	.26536	.27530	.28424	.29256	.30106	.31014	.31844
0.14	.18548	.18842	.19254	.19810	.20388	.21020	.21746	.22448	.23224	.24140	.24956	.25916	.26774	.27536	.28496	.29370	.30174	.30992	.31876	.32676
0.15	.19758	.19984	.20368	.20896	.21430	.22034	.22734	.23408	.24154	.25048	.25834	.26772	.27602	.28340	.29278	.30136	.30926	.31726	.32594	.33382
0.16	.21118	.21326	.21668	.22144	.22644	.23210	.23870	.24518	.25236	.26102	.26856	.27764	.28560	.29276	.30180	.30998	.31766	.32550	.33386	.34172
0.17	.22422	.22606	.22912	.23352	.23820	.24362	.24982	.25610	.26302	.27144	.27866	.28744	.29514	.30200	.31074	.31872	.32622	.33388	.34210	.34980
0.18	.23668	.23822	.24096	.24520	.24962	.25484	.26062	.26658	.27316	.28136	.28840	.29692	.30434	.31108	.31940	.32712	.33434	.34178	.34974	.35724
0.19	.24906	.25034	.25278	.25672	.26076	.26578	.27126	.27706	.28336	.29130	.29806	.30634	.31350	.31998	.32802	.33560	.34268	.34994	.35766	.36480
0.20	.26162	.26294	.26504	.26860	.27236	.27706	.28230	.28774	.29378	.30130	.30786	.31586	.32278	.32898	.33674	.34410	.35098	.35802	.36554	.37252

Powers of $KS - V$ Sequential test against Gamma for $n = 10$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02208	.04334	.06304	.08136	.10050	.11780	.13636	.15384	.17036	.18610	.20390	.22144	.23848	.25462	.26986	.28396	.30030	.31656	.33228
0.02	.03666	.05464	.07312	.09072	.10754	.12508	.14102	.15830	.17462	.19054	.20512	.22210	.23874	.25486	.27040	.28474	.29782	.31338	.32896	.34416
0.03	.06820	.08314	.09920	.11522	.13022	.14656	.16152	.17788	.19332	.20792	.22214	.23834	.25410	.26946	.28440	.29812	.31088	.32570	.34076	.35532
0.04	.09594	.10862	.12274	.13722	.15084	.16584	.18006	.19556	.21038	.22418	.23766	.25278	.26766	.28236	.29654	.30962	.32168	.33608	.35068	.36480
0.05	.12582	.13608	.14826	.16120	.17338	.18712	.20006	.21446	.22850	.24140	.25420	.26862	.28280	.29660	.31014	.32256	.33430	.34826	.36224	.37586
0.06	.15026	.15892	.16964	.18124	.19234	.20490	.21702	.23040	.24356	.25574	.26800	.28190	.29538	.30854	.32158	.33362	.34504	.35860	.37186	.38506
0.07	.17626	.18356	.19268	.20276	.21288	.22434	.23560	.24786	.26016	.27182	.28338	.29652	.30928	.32186	.33452	.34614	.35700	.37022	.38292	.39576
0.08	.20018	.20648	.21426	.22318	.23216	.24258	.25318	.26452	.27606	.28718	.29824	.31080	.32296	.33522	.34736	.35852	.36898	.38160	.39384	.40622
0.09	.22252	.22822	.23492	.24276	.25090	.26024	.26998	.28052	.29112	.30162	.31228	.32404	.33582	.34752	.35912	.36984	.37992	.39210	.40362	.41570
0.10	.24184	.24722	.25288	.25976	.26728	.27592	.28492	.29492	.30506	.31510	.32524	.33666	.34804	.35920	.37040	.38078	.39054	.40198	.41338	.42472
0.11	.26036	.26530	.27022	.27634	.28304	.29102	.29936	.30878	.31828	.32786	.33742	.34822	.35898	.36960	.38042	.39038	.39958	.41086	.42186	.43276
0.12	.28020	.28480	.28890	.29424	.30016	.30754	.31524	.32404	.33296	.34196	.35100	.36140	.37162	.38164	.39200	.40160	.41050	.42130	.43206	.44266
0.13	.29818	.30268	.30628	.31110	.31650	.32318	.33038	.33854	.34680	.35526	.36374	.37366	.38360	.39318	.40328	.41248	.42110	.43148	.44190	.45220
0.14	.31530	.31972	.32292	.32716	.33204	.33822	.34490	.35250	.36048	.36838	.37616	.38562	.39498	.40404	.41384	.42280	.43118	.44134	.45132	.46120
0.15	.33248	.33674	.33968	.34350	.34786	.35330	.35946	.36644	.37390	.38130	.38862	.39772	.40662	.41516	.42444	.43318	.44118	.45104	.46066	.47030
0.16	.35048	.35458	.35718	.36044	.36412	.36906	.37490	.38148	.38838	.39524	.40214	.41070	.41922	.42718	.43600	.44442	.45200	.46136	.47058	.47984
0.17	.36680	.37084	.37328	.37614	.37948	.38362	.38904	.39514	.40180	.40796	.41484	.42278	.43086	.43840	.44674	.45488	.46198	.47096	.47980	.48884
0.18	.38352	.38748	.38978	.39236	.39550	.39956	.40414	.40972	.41560	.42154	.42788	.43538	.44296	.45018	.45818	.46572	.47262	.48144	.48982	.49870
0.19	.39756	.40126	.40342	.40568	.40844	.41216	.41614	.42140	.42708	.43252	.43828	.44556	.45290	.45972	.46746	.47484	.48164	.49004	.49818	.50650
0.20	.41302	.41678	.41876	.42084	.42332	.42656	.42998	.43478	.43986	.44496	.45030	.45718	.46406	.47058	.47794	.48494	.49146	.49950	.50736	.51536

Table F.4 Power tables of $KS - V$ against Gamma ditribution

Powers of $KS - V$ Sequential test against Gamma for $n = 15$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04008	.07564	.10950	.13908	.16960	.19786	.22266	.24490	.26860	.29266	.31488	.33648	.35736	.37816	.39750	.41604	.43468	.45100	.46786
0.02	.06852	.09990	.12938	.15840	.18398	.21076	.23628	.25830	.27828	.29992	.32214	.34242	.36216	.38160	.40096	.41888	.43616	.45348	.46890	.48460
0.03	.12762	.15228	.17656	.20106	.22344	.24698	.26964	.28998	.30794	.32812	.34846	.36698	.38524	.40340	.42146	.43846	.45498	.47112	.48568	.50046
0.04	.17496	.19476	.21476	.23584	.25594	.27716	.29786	.31666	.33298	.35162	.37076	.38794	.40514	.42232	.43922	.45536	.47084	.48618	.49976	.51390
0.05	.21442	.23070	.24790	.26656	.28470	.30384	.32304	.34026	.35542	.37318	.39118	.40734	.42370	.43960	.45564	.47100	.48578	.50028	.51324	.52680
0.06	.25380	.26766	.28194	.29780	.31356	.33048	.34800	.36390	.37804	.39420	.41094	.42600	.44150	.45648	.47138	.48598	.50004	.51392	.52628	.53926
0.07	.28976	.30182	.31358	.32686	.34076	.35556	.37138	.38594	.39880	.41370	.42932	.44352	.45830	.47240	.48630	.50014	.51338	.52650	.53820	.55076
0.08	.31892	.32982	.33990	.35134	.36386	.37716	.39164	.40488	.41680	.43074	.44556	.45894	.47298	.48634	.49952	.51266	.52528	.53774	.54910	.56114
0.09	.34624	.35812	.36678	.37650	.38762	.39954	.41288	.42494	.43602	.44882	.46272	.47526	.48822	.50088	.51346	.52594	.53810	.55004	.56084	.57250
0.10	.37732	.38646	.39390	.40210	.41178	.42218	.43424	.44544	.45560	.46740	.48018	.49200	.50404	.51590	.52778	.53966	.55126	.56256	.57294	.58406
0.11	.40262	.41136	.41800	.42516	.43372	.44328	.45404	.46414	.47354	.48458	.49654	.50736	.51882	.53006	.54152	.55284	.56386	.57472	.58446	.59516
0.12	.42500	.43328	.43930	.44542	.45284	.46146	.47110	.48034	.48902	.49944	.51078	.52102	.53180	.54250	.55338	.56418	.57474	.58510	.59442	.60470
0.13	.44606	.45412	.45958	.46474	.47138	.47946	.48820	.49674	.50490	.51458	.52496	.53458	.54474	.55470	.56510	.57536	.58520	.59516	.60414	.61398
0.14	.46568	.47340	.47840	.48308	.48902	.49628	.50416	.51192	.51948	.52854	.53838	.54742	.55706	.56658	.57626	.58604	.59548	.60502	.61372	.62316
0.15	.48488	.49228	.49696	.50114	.50644	.51310	.52034	.52752	.53446	.54304	.55228	.56060	.56960	.57870	.58802	.59726	.60624	.61514	.62344	.63252
0.16	.50398	.51102	.51544	.51930	.52394	.52990	.53632	.54260	.54886	.55674	.56534	.57304	.58140	.58996	.59868	.60756	.61620	.62472	.63266	.64130
0.17	.52118	.52800	.53206	.53576	.53996	.54532	.55118	.55684	.56248	.56988	.57790	.58504	.59290	.60094	.60928	.61772	.62608	.63420	.64184	.65012
0.18	.53768	.54426	.54816	.55148	.55538	.56018	.56562	.57076	.57596	.58266	.58998	.59644	.60388	.61152	.61928	.62730	.63542	.64326	.65046	.65850
0.19	.55310	.55942	.56314	.56620	.56980	.57438	.57920	.58386	.58854	.59482	.60164	.60760	.61470	.62182	.62918	.63684	.64436	.65188	.65874	.66654
0.20	.56944	.57552	.57908	.58190	.58498	.58898	.59324	.59744	.60168	.60740	.61364	.61906	.62574	.63244	.63942	.64664	.65374	.66074	.66746	.67486

Powers of $KS - V$ Sequential test against Gamma for $n = 20$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.06672	.12380	.17508	.21870	.26128	.29948	.33640	.36886	.40064	.42878	.45574	.48188	.50770	.52932	.55032	.56902	.58852	.60878	.62648
0.02	.10862	.15828	.20294	.24504	.28110	.31754	.35042	.38270	.41158	.44008	.46508	.48922	.51322	.53674	.55666	.57582	.59308	.61102	.62970	.64584
0.03	.19408	.23206	.26776	.30184	.33260	.36388	.39232	.42068	.44600	.47170	.49424	.51612	.53846	.55992	.57826	.59576	.61150	.62802	.64524	.66006
0.04	.25762	.28816	.31778	.34626	.37292	.39970	.42476	.45084	.47404	.49732	.51784	.53774	.55850	.57838	.59564	.61218	.62654	.64192	.65802	.67196
0.05	.31318	.33906	.36376	.38786	.41050	.43438	.45634	.47932	.50014	.52146	.54040	.55890	.57780	.59616	.61236	.62778	.64138	.65604	.67114	.68422
0.06	.35966	.38228	.40320	.42346	.44292	.46416	.48390	.50460	.52346	.54280	.56042	.57718	.59466	.61192	.62718	.64164	.65432	.66820	.68262	.69514
0.07	.40032	.42082	.43832	.45560	.47270	.49162	.50914	.52788	.54490	.56276	.57918	.59486	.61128	.62740	.64164	.65506	.66706	.68012	.69386	.70576
0.08	.43606	.45480	.46996	.48480	.49984	.51638	.53226	.54918	.56462	.58076	.59610	.61056	.62572	.64074	.65428	.66682	.67812	.69060	.70368	.71490
0.09	.46604	.48350	.49722	.50990	.52314	.53796	.55226	.56744	.58148	.59650	.61078	.62422	.63830	.65260	.66556	.67738	.68824	.70020	.71254	.72338
0.10	.49350	.51000	.52232	.53350	.54508	.55830	.57134	.58548	.59834	.61216	.62560	.63776	.65084	.66430	.67652	.68786	.69818	.70944	.72110	.73128
0.11	.51928	.53476	.54596	.55586	.56612	.57744	.58924	.60216	.61378	.62618	.63868	.65008	.66244	.67510	.68658	.69742	.70702	.71762	.72880	.73872
0.12	.54374	.55856	.56902	.57772	.58674	.59636	.60718	.61900	.62972	.64116	.65256	.66322	.67472	.68668	.69744	.70762	.71666	.72680	.73746	.74678
0.13	.56546	.57966	.58944	.59734	.60500	.61364	.62330	.63420	.64404	.65458	.66514	.67524	.68602	.69714	.70728	.71692	.72544	.73494	.74496	.75388
0.14	.58710	.60048	.60968	.61642	.62352	.63098	.63944	.64934	.65824	.66810	.67790	.68726	.69742	.70778	.71714	.72630	.73430	.74310	.75254	.76104
0.15	.60766	.62036	.62908	.63516	.64152	.64798	.65538	.66422	.67214	.68102	.69024	.69884	.70830	.71798	.72672	.73526	.74292	.75120	.76010	.76828
0.16	.62694	.63904	.64718	.65256	.65838	.66428	.67092	.67860	.68582	.69384	.70234	.71020	.71914	.72814	.73636	.74446	.75178	.75954	.76802	.77570
0.17	.64352	.65514	.66296	.66800	.67330	.67870	.68480	.69166	.69818	.70540	.71328	.72040	.72852	.73704	.74488	.75258	.75946	.76684	.77498	.78220
0.18	.65896	.67022	.67758	.68222	.68714	.69208	.69786	.70384	.70970	.71640	.72362	.73024	.73792	.74604	.75336	.76066	.76724	.77422	.78182	.78868
0.19	.67512	.68598	.69288	.69730	.70174	.70634	.71128	.71684	.72216	.72832	.73510	.74112	.74830	.75598	.76292	.76964	.77592	.78228	.78946	.79600
0.20	.69026	.70074	.70744	.71140	.71548	.71962	.72404	.72904	.73364	.73920	.74544	.75106	.75774	.76490	.77136	.77778	.78368	.78960	.79644	.80248

Table F.5 (Continued)

Powers of $KS - V$ Sequential test against Gamma for $n = 25$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.10282	.18968	.25674	.31914	.37432	.41998	.46086	.49926	.53254	.56292	.59164	.61812	.64360	.66874	.68988	.70932	.72656	.74250	.75884
0.02	.15486	.22814	.29290	.34508	.39514	.44134	.47958	.51404	.54712	.57550	.60226	.62692	.65042	.67310	.69544	.71408	.73134	.74646	.76088	.77508
0.03	.25964	.31622	.36632	.40814	.44954	.48838	.52112	.55100	.58060	.60546	.62906	.65136	.67288	.69342	.71406	.73096	.74678	.76074	.77396	.78684
0.04	.34650	.39230	.43148	.46478	.49850	.53132	.55940	.58510	.61128	.63330	.65416	.67446	.69392	.71246	.73148	.74636	.76076	.77378	.78622	.79800
0.05	.41112	.45006	.48188	.50954	.53830	.56580	.59014	.61266	.63568	.65548	.67414	.69266	.71098	.72792	.74542	.75910	.77236	.78470	.79636	.80736
0.06	.46562	.49940	.52646	.54962	.57306	.59674	.61820	.63764	.65812	.67596	.69286	.70992	.72634	.74200	.75834	.77078	.78326	.79468	.80578	.81598
0.07	.50760	.53794	.56138	.58066	.60128	.62164	.64064	.65794	.67658	.69306	.70862	.72424	.73934	.75412	.76932	.78090	.79274	.80324	.81394	.82360
0.08	.54700	.57458	.59494	.61120	.62842	.64574	.66214	.67756	.69470	.70954	.72382	.73798	.75196	.76558	.77960	.79062	.80156	.81160	.82150	.83054
0.09	.58082	.60578	.62406	.63810	.65270	.66818	.68264	.69618	.71142	.72488	.73764	.75080	.76358	.77646	.78918	.79974	.80986	.81926	.82856	.83712
0.10	.61268	.63554	.65162	.66350	.67620	.68906	.70192	.71386	.72744	.73968	.75114	.76298	.77454	.78636	.79814	.80800	.81738	.82626	.83500	.84322
0.11	.63974	.66128	.67594	.68630	.69692	.70822	.71944	.73004	.74236	.75324	.76360	.77442	.78514	.79610	.80718	.81642	.82494	.83338	.84176	.84944
0.12	.66440	.68436	.69790	.70706	.71646	.72572	.73512	.74416	.75534	.76514	.77464	.78452	.79456	.80466	.81480	.82344	.83142	.83934	.84712	.85446
0.13	.68708	.70544	.71760	.72592	.73444	.74258	.75054	.75854	.76840	.77718	.78566	.79476	.80406	.81332	.82288	.83098	.83830	.84558	.85294	.85982
0.14	.70694	.72396	.73544	.74294	.75044	.75744	.76442	.77162	.78042	.78830	.79590	.80428	.81306	.82166	.83052	.83796	.84488	.85152	.85854	.86496
0.15	.72486	.74068	.75128	.75796	.76470	.77094	.77694	.78338	.79118	.79844	.80530	.81312	.82104	.82888	.83702	.84382	.85024	.85648	.86316	.86924
0.16	.74236	.75728	.76722	.77344	.77950	.78496	.79004	.79556	.80248	.80920	.81530	.82226	.82950	.83650	.84384	.85030	.85620	.86204	.86830	.87416
0.17	.75738	.77132	.78074	.78654	.79204	.79698	.80148	.80598	.81210	.81810	.82356	.82998	.83668	.84326	.85010	.85610	.86156	.86688	.87290	.87842
0.18	.76972	.78316	.79188	.79722	.80230	.80674	.81068	.81468	.82030	.82590	.83088	.83668	.84266	.84892	.85544	.86114	.86630	.87140	.87708	.88234
0.19	.78276	.79526	.80370	.80862	.81324	.81722	.82068	.82426	.82904	.83408	.83860	.84406	.84954	.85546	.86140	.86670	.87150	.87624	.88148	.88660
0.20	.79528	.80716	.81516	.81980	.82400	.82756	.83058	.83384	.83796	.84272	.84680	.85166	.85672	.86222	.86774	.87274	.87716	.88154	.88634	.89136

Powers of $KS - V$ Sequential test against Gamma for $n = 30$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.15864	.27604	.36614	.43866	.49912	.55054	.59166	.63166	.66652	.69572	.72280	.74590	.76628	.78808	.80610	.81972	.83374	.84702	.86014
0.02	.22228	.32696	.40712	.47172	.52578	.57196	.61232	.64652	.67866	.70742	.73138	.75448	.77364	.79256	.80934	.82524	.83684	.84892	.86036	.87226
0.03	.34280	.42328	.48502	.53456	.57840	.61644	.65046	.67926	.70688	.73196	.75354	.77422	.79096	.80798	.82336	.83758	.84806	.85880	.86920	.87990
0.04	.43650	.50008	.54814	.58716	.62238	.65392	.68280	.70776	.73158	.75412	.77304	.79144	.80628	.82164	.83540	.84844	.85786	.86732	.87680	.88672
0.05	.50746	.56118	.59904	.63094	.66018	.68594	.71078	.73218	.75296	.77328	.78956	.80606	.81924	.83278	.84544	.85772	.86636	.87500	.88386	.89260
0.06	.56196	.60838	.63936	.66576	.69046	.71236	.73366	.75202	.77050	.78878	.80328	.81796	.82986	.84244	.85416	.86536	.87326	.88114	.88888	.89732
0.07	.61034	.65074	.67686	.69800	.71900	.73738	.75576	.77172	.78752	.80356	.81652	.82962	.84034	.85170	.86266	.87312	.88030	.88736	.89456	.90246
0.08	.64650	.68302	.70598	.72350	.74146	.75702	.77270	.78690	.80122	.81544	.82712	.83890	.84868	.85922	.86906	.87894	.88560	.89216	.89876	.90618
0.09	.67532	.70840	.72874	.74378	.75906	.77292	.78658	.79950	.81240	.82536	.83604	.84674	.85566	.86524	.87454	.88382	.89028	.89660	.90264	.90960
0.10	.70474	.73472	.75226	.76548	.77858	.79054	.80192	.81320	.82466	.83616	.84578	.85526	.86356	.87216	.88070	.88952	.89534	.90120	.90690	.91334
0.11	.72896	.75650	.77226	.78374	.79502	.80498	.81494	.82494	.83506	.84544	.85400	.86270	.87026	.87844	.88608	.89444	.89992	.90538	.91090	.91704
0.12	.74956	.77498	.78950	.79940	.80946	.81798	.82660	.83526	.84468	.85426	.86186	.86984	.87672	.88422	.89102	.89882	.90410	.90920	.91438	.92020
0.13	.76762	.79116	.80444	.81356	.82200	.82936	.83718	.84488	.85312	.86158	.86864	.87590	.88234	.88924	.89568	.90292	.90782	.91262	.91750	.92306
0.14	.78580	.80776	.81986	.82788	.83520	.84162	.84838	.85486	.86218	.86990	.87628	.88270	.88866	.89490	.90066	.90752	.91210	.91662	.92110	.92648
0.15	.80112	.82172	.83274	.83988	.84626	.85194	.85784	.86368	.87018	.87712	.88286	.88868	.89398	.89984	.90508	.91162	.91596	.92016	.92430	.92938
0.16	.81554	.83434	.84446	.85100	.85672	.86162	.86682	.87194	.87770	.88404	.88920	.89452	.89934	.90456	.90952	.91566	.91992	.92396	.92780	.93256
0.17	.82920	.84666	.85580	.86178	.86682	.87118	.87562	.88000	.88500	.89066	.89512	.89988	.90428	.90914	.91366	.91948	.92352	.92738	.93096	.93544
0.18	.84116	.85728	.86562	.87108	.87550	.87936	.88314	.88704	.89142	.89632	.90044	.90490	.90886	.91328	.91738	.92288	.92676	.93034	.93366	.93802
0.19	.85282	.86766	.87544	.88022	.88420	.88780	.89136	.89480	.89870	.90300	.90658	.91062	.91436	.91830	.92200	.92704	.93056	.93400	.93698	.94104
0.20	.86236	.87656	.88388	.88844	.89208	.89542	.89850	.90142	.90488	.90858	.91172	.91542	.91884	.92244	.92578	.93016	.93348	.93686	.93946	.94336

Table F.5 (Continued)

Powers of $KS - V$ Sequential test against Gamma for $n = 35$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.21524	.36104	.46936	.54930	.61360	.66848	.70934	.74638	.77468	.80208	.82432	.84208	.85936	.87608	.88844	.89938	.91012	.91876	.92672
0.02	.27208	.40862	.50518	.58010	.63678	.68390	.72528	.75706	.78624	.80828	.83044	.84850	.86310	.87754	.89124	.90132	.91026	.91942	.92704	.93400
0.03	.42108	.51970	.58866	.64422	.68742	.72428	.75810	.78434	.80900	.82766	.84748	.86306	.87572	.88804	.90042	.90934	.91732	.92556	.93228	.93844
0.04	.52520	.60116	.65214	.69446	.72778	.75688	.78506	.80696	.82788	.84388	.86114	.87480	.88604	.89704	.90826	.91624	.92350	.93104	.93704	.94288
0.05	.59500	.65832	.69752	.73114	.75864	.78312	.80584	.82488	.84362	.85742	.87278	.88500	.89502	.90462	.91488	.92192	.92866	.93528	.94072	.94616
0.06	.65272	.70578	.73718	.76332	.78630	.80688	.82586	.84186	.85782	.86980	.88324	.89442	.90330	.91172	.92094	.92748	.93372	.93962	.94452	.94960
0.07	.69808	.74296	.76912	.78990	.80822	.82502	.84102	.85506	.86938	.88014	.89232	.90268	.91058	.91798	.92622	.93226	.93794	.94336	.94802	.95262
0.08	.73552	.77436	.79564	.81228	.82738	.84134	.85484	.86712	.87906	.88840	.89924	.90870	.91592	.92292	.93036	.93578	.94086	.94570	.95006	.95432
0.09	.76420	.79886	.81704	.83100	.84320	.85468	.86600	.87684	.88720	.89566	.90532	.91376	.92024	.92662	.93376	.93884	.94346	.94810	.95214	.95614
0.10	.78954	.82036	.83620	.84838	.85848	.86784	.87720	.88640	.89586	.90324	.91176	.91944	.92534	.93126	.93796	.94270	.94702	.95122	.95506	.95872
0.11	.80936	.83722	.85082	.86116	.87000	.87774	.88588	.89388	.90212	.90868	.91644	.92332	.92872	.93408	.94012	.94468	.94896	.95304	.95664	.96008
0.12	.83080	.85502	.86698	.87560	.88306	.88934	.89616	.90288	.90994	.91552	.92236	.92852	.93342	.93804	.94354	.94762	.95152	.95518	.95862	.96176
0.13	.84750	.86962	.88052	.88822	.89436	.89988	.90522	.91116	.91706	.92192	.92802	.93324	.93764	.94168	.94682	.95056	.95418	.95756	.96064	.96368
0.14	.86236	.88238	.89216	.89874	.90376	.90856	.91314	.91822	.92360	.92758	.93306	.93774	.94150	.94510	.95002	.95356	.95696	.96008	.96284	.96546
0.15	.87376	.89216	.90090	.90692	.91130	.91560	.91948	.92396	.92878	.93238	.93720	.94164	.94502	.94838	.95256	.95600	.95918	.96216	.96486	.96716
0.16	.88628	.90248	.91054	.91600	.91964	.92332	.92638	.93036	.93450	.93764	.94180	.94568	.94874	.95170	.95564	.95882	.96184	.96446	.96674	.96880
0.17	.89676	.91154	.91884	.92358	.92658	.92988	.93240	.93596	.93962	.94248	.94604	.94956	.95222	.95504	.95876	.96150	.96420	.96660	.96882	.97068
0.18	.90502	.91864	.92540	.92962	.93216	.93504	.93722	.94028	.94344	.94580	.94888	.95186	.95434	.95696	.96040	.96306	.96552	.96774	.96982	.97162
0.19	.91226	.92408	.93106	.93500	.93732	.93982	.94182	.94420	.94688	.94894	.95176	.95440	.95660	.95904	.96202	.96448	.96686	.96898	.97098	.97272
0.20	.92022	.93164	.93720	.94058	.94276	.94486	.94660	.94876	.95098	.95286	.95516	.95748	.95942	.96158	.96432	.96648	.96872	.97070	.97244	.97392

Powers of $KS - V$ Sequential test against Gamma for $n = 40$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.30060	.46246	.58234	.65484	.71506	.76262	.80104	.83188	.85542	.87596	.89204	.90678	.91836	.92870	.93742	.94560	.95224	.95886	.96502
0.02	.31922	.49966	.59908	.67760	.72896	.77294	.80744	.83742	.86136	.87978	.89556	.90872	.92074	.93048	.93926	.94610	.95304	.95832	.96404	.96944
0.03	.48446	.61108	.68018	.73686	.77444	.80794	.83588	.85940	.87916	.89432	.90762	.91886	.92874	.93738	.94466	.95088	.95718	.96186	.96662	.97146
0.04	.59608	.69062	.74028	.78172	.81048	.83616	.85870	.87734	.89316	.90630	.91744	.92724	.93578	.94354	.95008	.95540	.96116	.96526	.96946	.97382
0.05	.67012	.74360	.78038	.81270	.83540	.85612	.87450	.89036	.90396	.91500	.92508	.93386	.94126	.94814	.95402	.95892	.96414	.96772	.97152	.97566
0.06	.72276	.78340	.81156	.83676	.85536	.87266	.88804	.90148	.91300	.92262	.93170	.93976	.94620	.95246	.95806	.96240	.96718	.97030	.97388	.97746
0.07	.76566	.81622	.83912	.85932	.87400	.88772	.90010	.91136	.92132	.92994	.93756	.94470	.95042	.95626	.96112	.96504	.96932	.97232	.97558	.97908
0.08	.79934	.84236	.86112	.87748	.88888	.89976	.91018	.92004	.92832	.93616	.94278	.94906	.95416	.95952	.96402	.96770	.97136	.97424	.97724	.98026
0.09	.82666	.86388	.87942	.89252	.90142	.91070	.91926	.92720	.93432	.94146	.94742	.95320	.95782	.96272	.96704	.97034	.97372	.97640	.97900	.98184
0.10	.84778	.87940	.89272	.90398	.91146	.91896	.92622	.93320	.93952	.94578	.95106	.95640	.96068	.96520	.96916	.97216	.97544	.97782	.98010	.98280
0.11	.86924	.89652	.90808	.91744	.92306	.92898	.93454	.94006	.94554	.95092	.95562	.96028	.96400	.96774	.97152	.97422	.97706	.97920	.98136	.98384
0.12	.88374	.90832	.91854	.92668	.93148	.93618	.94062	.94544	.95012	.95488	.95890	.96312	.96642	.96992	.97336	.97584	.97850	.98050	.98250	.98486
0.13	.89806	.91912	.92824	.93516	.93906	.94268	.94618	.95062	.95464	.95868	.96240	.96614	.96904	.97212	.97544	.97750	.97996	.98176	.98358	.98586
0.14	.90914	.92800	.93578	.94156	.94484	.94814	.95106	.95492	.95842	.96160	.96446	.96834	.97094	.97374	.97676	.97866	.98076	.98244	.98406	.98620
0.15	.91752	.93462	.94172	.94686	.94976	.95252	.95508	.95842	.96122	.96404	.96702	.97026	.97270	.97532	.97800	.97972	.98178	.98324	.98482	.98688
0.16	.92674	.94170	.94808	.95270	.95506	.95740	.95950	.96236	.96474	.96706	.96988	.97274	.97494	.97706	.97940	.98094	.98264	.98402	.98554	.98750
0.17	.93522	.94870	.95410	.95802	.95996	.96200	.96384	.96622	.96832	.97026	.97250	.97452	.97658	.97832	.98040	.98190	.98352	.98484	.98616	.98806
0.18	.94320	.95484	.95940	.96292	.96448	.96604	.96748	.96960	.97122	.97292	.97480	.97646	.97822	.97964	.98154	.98290	.98450	.98574	.98702	.98872
0.19	.94886	.95954	.96374	.96694	.96834	.96960	.97080	.97264	.97384	.97526	.97694	.97850	.98000	.98108	.98278	.98412	.98558	.98658	.98778	.98926
0.20	.95398	.96386	.96770	.97058	.97180	.97288	.97378	.97554	.97640	.97768	.97886	.98016	.98150	.98236	.98386	.98508	.98644	.98742	.98844	.98986

Table F.5 (Continued)

Powers of $KS - V$ Sequential test against Gamma for $n = 45$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.39556	.57142	.67054	.74498	.79432	.83502	.86582	.88992	.91016	.92548	.93992	.94806	.95562	.96204	.96816	.97328	.97726	.98060	.98328
0.02	.40146	.60848	.70632	.76744	.81428	.84618	.87426	.89618	.91438	.92964	.94082	.95206	.95838	.96404	.96866	.97328	.97712	.98062	.98346	.98552
0.03	.57164	.70932	.77426	.81766	.85066	.87382	.89520	.91124	.92612	.93846	.94806	.95698	.96234	.96698	.97140	.97546	.97902	.98220	.98486	.98674
0.04	.67018	.77178	.81908	.85102	.87518	.89234	.90944	.92286	.93470	.94548	.95408	.96160	.96608	.97032	.97412	.97790	.98090	.98374	.98590	.98746
0.05	.73864	.81534	.85050	.87452	.89326	.90640	.92072	.93188	.94154	.95070	.95830	.96504	.96906	.97296	.97614	.97956	.98232	.98508	.98692	.98820
0.06	.78778	.84936	.87548	.89386	.90838	.91920	.93070	.93894	.94710	.95510	.96184	.96768	.97116	.97482	.97772	.98088	.98346	.98596	.98768	.98886
0.07	.82492	.87586	.89586	.90982	.92072	.92972	.93876	.94562	.95290	.96012	.96624	.97124	.97436	.97754	.98000	.98272	.98500	.98708	.98868	.98986
0.08	.85170	.89478	.91110	.92192	.93048	.93782	.94544	.95138	.95740	.96382	.96894	.97336	.97632	.97932	.98160	.98402	.98600	.98776	.98916	.99022
0.09	.87808	.91222	.92586	.93402	.94092	.94634	.95206	.95702	.96174	.96702	.97146	.97550	.97826	.98068	.98282	.98498	.98670	.98834	.98948	.99050
0.10	.89908	.92724	.93770	.94424	.94950	.95408	.95862	.96246	.96628	.97048	.97454	.97828	.98060	.98262	.98466	.98654	.98806	.98938	.99040	.99136
0.11	.91496	.93872	.94700	.95250	.95638	.95990	.96354	.96690	.97004	.97384	.97740	.98008	.98212	.98400	.98582	.98744	.98872	.99000	.99102	.99194
0.12	.92616	.94660	.95392	.95894	.96168	.96456	.96754	.97030	.97298	.97588	.97900	.98154	.98322	.98478	.98638	.98792	.98908	.99020	.99122	.99214
0.13	.93538	.95296	.95962	.96424	.96642	.96890	.97130	.97340	.97592	.97834	.98058	.98286	.98438	.98566	.98718	.98856	.98958	.99068	.99162	.99244
0.14	.94344	.95894	.96454	.96840	.97026	.97246	.97426	.97590	.97814	.97996	.98200	.98404	.98546	.98658	.98798	.98902	.98998	.99100	.99190	.99266
0.15	.94998	.96384	.96880	.97216	.97374	.97560	.97692	.97834	.98014	.98154	.98338	.98520	.98640	.98746	.98874	.98972	.99056	.99150	.99230	.99296
0.16	.95530	.96778	.97232	.97528	.97642	.97812	.97910	.98044	.98192	.98318	.98482	.98646	.98756	.98858	.98984	.99076	.99134	.99220	.99300	.99366
0.17	.96114	.97196	.97592	.97814	.97910	.98046	.98122	.98238	.98362	.98482	.98598	.98756	.98836	.98934	.99046	.99130	.99176	.99256	.99324	.99388
0.18	.96336	.97374	.97744	.97946	.98040	.98174	.98240	.98334	.98448	.98562	.98670	.98822	.98892	.98986	.99090	.99164	.99204	.99284	.99352	.99410
0.19	.96676	.97632	.97962	.98152	.98244	.98350	.98398	.98468	.98580	.98686	.98792	.98926	.98984	.99078	.99168	.99226	.99264	.99342	.99390	.99438
0.20	.97092	.97920	.98238	.98386	.98470	.98568	.98614	.98674	.98768	.98856	.98960	.99074	.99116	.99204	.99286	.99340	.99378	.99454	.99480	.99528

Powers of $KS - V$ Sequential test against Gamma for $n = 50$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.40960	.61158	.72454	.79558	.84932	.88520	.90978	.92820	.94252	.95230	.96006	.96746	.97508	.97968	.98366	.98654	.98910	.99038	.99282
0.02	.44324	.64216	.75090	.81766	.86106	.89576	.91704	.93356	.94630	.95644	.96340	.96924	.97398	.97984	.98334	.98658	.98886	.99084	.99188	.99382
0.03	.61314	.74430	.81610	.86126	.89062	.91662	.93216	.94480	.95478	.96282	.96854	.97364	.97752	.98276	.98582	.98816	.99002	.99180	.99278	.99444
0.04	.71472	.80868	.85826	.88978	.91110	.93066	.94256	.95288	.96140	.96792	.97284	.97614	.97974	.98428	.98716	.98902	.99066	.99224	.99322	.99448
0.05	.78478	.85438	.88960	.91160	.92724	.94218	.95126	.95910	.96592	.97190	.97578	.97860	.98114	.98526	.98790	.98960	.99122	.99256	.99352	.99466
0.06	.83014	.88324	.91074	.92606	.93886	.95012	.95750	.96382	.96958	.97464	.97834	.98062	.98306	.98658	.98912	.99022	.99184	.99306	.99404	.99516
0.07	.86594	.90800	.92718	.93820	.94830	.95752	.96304	.96798	.97230	.97638	.97984	.98214	.98424	.98740	.98988	.99096	.99244	.99356	.99448	.99548
0.08	.88826	.92076	.93702	.94660	.95476	.96234	.96690	.97100	.97454	.97822	.98130	.98324	.98528	.98808	.99034	.99142	.99282	.99374	.99460	.99558
0.09	.90908	.93494	.94820	.95562	.96142	.96708	.97068	.97414	.97724	.97990	.98274	.98448	.98646	.98910	.99094	.99202	.99340	.99422	.99508	.99598
0.10	.92032	.94300	.95462	.96156	.96634	.97116	.97386	.97690	.97926	.98152	.98400	.98530	.98722	.98974	.99156	.99260	.99378	.99460	.99532	.99600
0.11	.93404	.95142	.96120	.96712	.97082	.97426	.97672	.97928	.98130	.98332	.98558	.98678	.98834	.99082	.99248	.99342	.99452	.99510	.99568	.99626
0.12	.94392	.95898	.96802	.97314	.97614	.97856	.98024	.98218	.98358	.98554	.98732	.98830	.98944	.99188	.99322	.99416	.99520	.99570	.99628	.99664
0.13	.94998	.96364	.97166	.97628	.97908	.98108	.98268	.98408	.98548	.98692	.98840	.98920	.99020	.99264	.99388	.99450	.99544	.99596	.99650	.99700
0.14	.95934	.97062	.97690	.98028	.98276	.98444	.98568	.98664	.98774	.98876	.98980	.99060	.99148	.99306	.99424	.99466	.99552	.99602	.99656	.99706
0.15	.96542	.97504	.98062	.98340	.98522	.98674	.98786	.98846	.98932	.99014	.99060	.99118	.99206	.99350	.99468	.99498	.99584	.99622	.99676	.99726
0.16	.97036	.97872	.98294	.98524	.98648	.98754	.98830	.98908	.98990	.99058	.99100	.99158	.99244	.99388	.99506	.99528	.99614	.99652	.99706	.99756
0.17	.97346	.98112	.98520	.98696	.98794	.98890	.98962	.98994	.99054	.99110	.99150	.99208	.99274	.99406	.99524	.99546	.99616	.99652	.99706	.99756
0.18	.97676	.98342	.98716	.98868	.98958	.99050	.99116	.99142	.99202	.99250	.99262	.99320	.99376	.99488	.99562	.99584	.99642	.99674	.99726	.99776
0.19	.98108	.98628	.98948	.99052	.99126	.99196	.99240	.99256	.99294	.99342	.99370	.99398	.99454	.99566	.99622	.99638	.99692	.99724	.99762	.99794
0.20	.98330	.98784	.99074	.99168	.99216	.99266	.99304	.99314	.99350	.99390	.99418	.99434	.99484	.99584	.99638	.99652	.99706	.99736	.99774	.99806

Table F.5 (Continued)

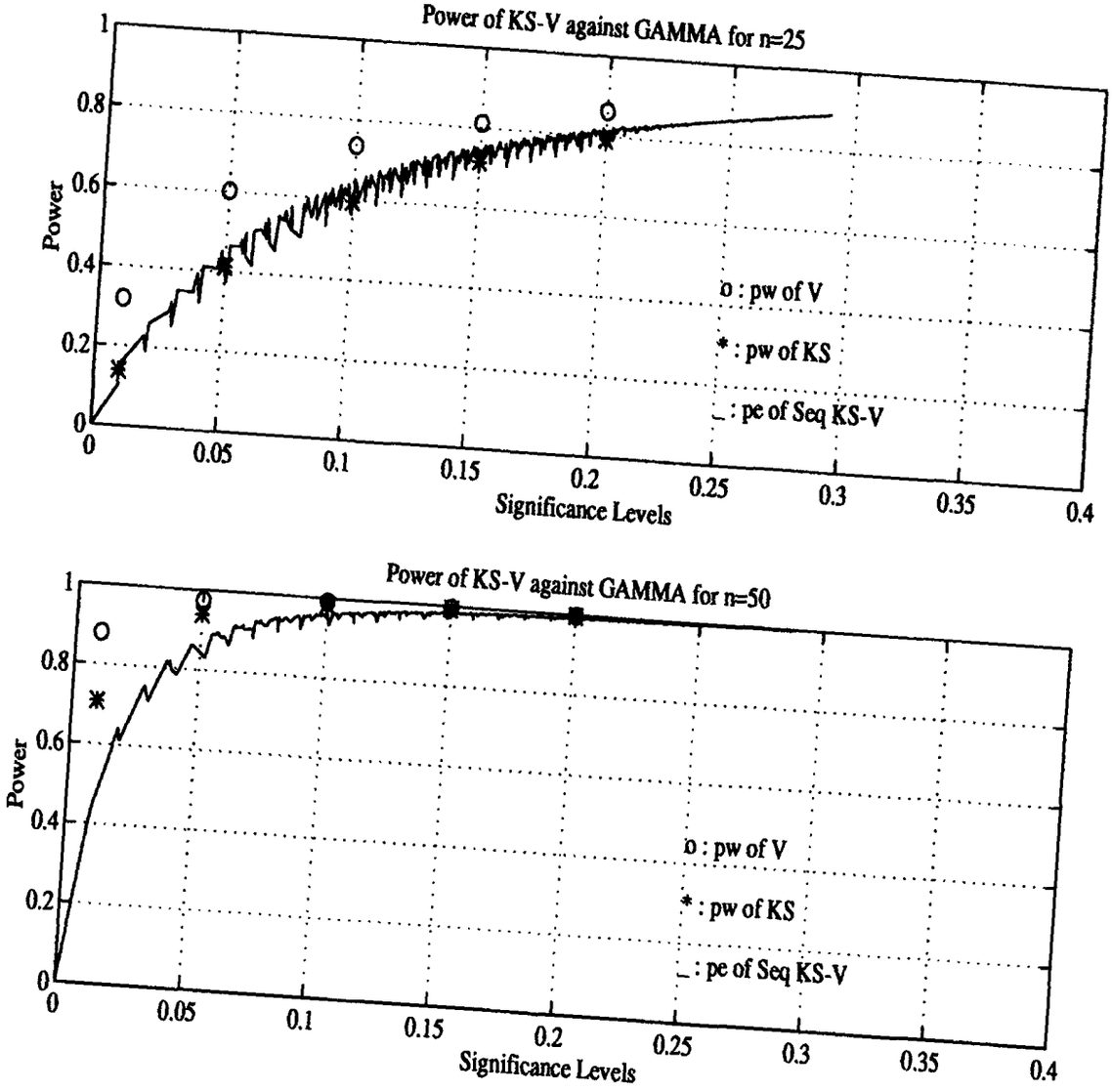

Figure F.4 Power comparisons of $KS-V$ against Gamma

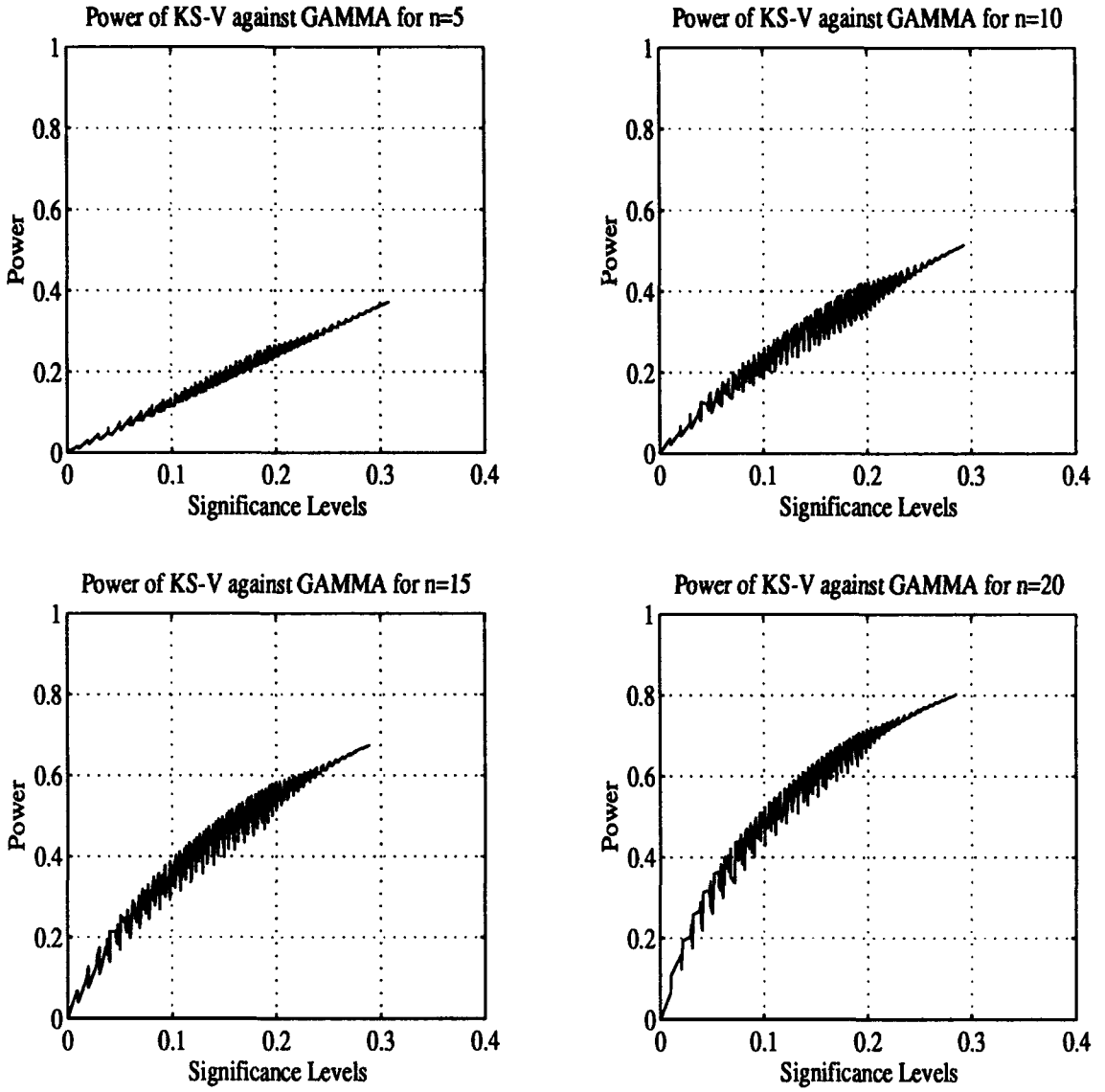

Figure F.4 (Continued)

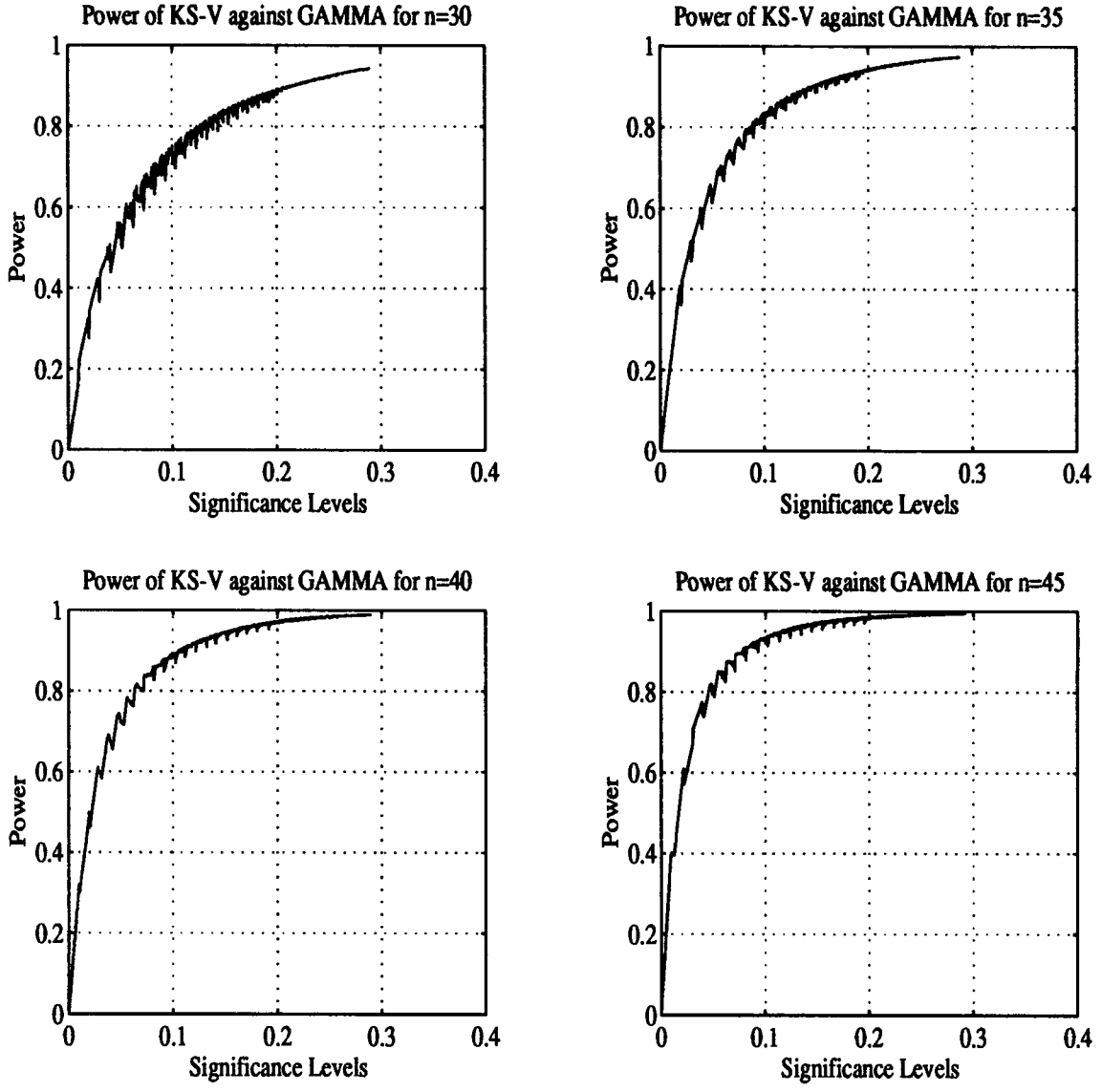

Figure F.4 (Continued)

Powers of $KS - V$ Sequential test against Weibull for $n = 5$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00762	.01500	.02394	.03210	.04022	.04956	.05840	.06830	.07794	.08796	.09804	.10736	.11688	.12770	.13688	.14728	.15732	.16732	.17660
0.02	.01412	.02132	.02824	.03670	.04458	.05236	.06124	.06978	.07926	.08856	.09818	.10810	.11708	.12644	.13686	.14586	.15592	.16574	.17546	.18460
0.03	.02736	.03422	.04064	.04870	.05606	.06354	.07208	.08032	.08956	.09870	.10812	.11778	.12660	.13566	.14574	.15456	.16444	.17402	.18356	.19242
0.04	.04092	.04734	.05332	.06098	.06802	.07524	.08346	.09150	.10054	.10940	.11852	.12800	.13656	.14532	.15518	.16382	.17342	.18276	.19210	.20066
0.05	.05428	.06006	.06568	.07290	.07966	.08676	.09472	.10258	.11130	.11986	.12872	.13798	.14636	.15478	.16442	.17286	.18212	.19124	.20038	.20876
0.06	.06822	.07340	.07854	.08540	.09192	.09876	.10622	.11388	.12238	.13072	.13936	.14838	.15656	.16468	.17392	.18220	.19124	.19990	.20[illegible]	.21712
0.07	.08074	.08544	.09016	.09668	.10288	.10940	.11656	.12402	.13218	.14024	.14862	.15736	.16538	.17332	.18230	.19040	.19910	.20756	.21634	.22440
0.08	.09268	.09698	.10132	.10764	.11360	.11980	.12666	.13396	.14188	.14970	.15788	.16624	.17418	.18184	.19060	.19854	.20702	.21526	.22392	.23176
0.09	.10458	.10858	.11250	.11858	.12416	.13010	.13672	.14376	.15132	.15898	.16704	.17518	.18286	.19024	.19880	.20656	.21484	.22290	.23126	.23894
0.10	.11606	.12168	.12508	.13078	.13604	.14168	.14800	.15482	.16206	.16942	.17714	.18512	.19268	.19976	.20800	.21550	.22352	.23134	.23944	.24688
0.11	.13186	.13506	.13818	.14356	.14848	.15372	.15974	.16624	.17316	.18022	.18758	.19514	.20234	.20926	.21710	.22438	.23220	.23986	.24770	.25500
0.12	.14616	.14900	.15174	.15674	.16130	.16618	.17168	.17792	.18452	.19138	.19844	.20570	.21266	.21936	.22698	.23396	.24164	.24906	.25664	.26380
0.13	.15664	.16102	.16358	.16834	.17260	.17740	.18258	.18864	.19488	.20148	.20808	.21510	.22184	.22838	.23578	.24252	.25004	.25720	.26462	.27160
0.14	.17094	.17302	.17538	.17992	.18394	.18854	.19354	.19932	.20538	.21170	.21804	.22484	.23116	.23752	.24464	.25124	.25858	.26558	.27284	.27960
0.15	.18252	.18432	.18640	.19064	.19452	.19890	.20368	.20924	.21508	.22104	.22716	.23366	.23968	.24580	.25264	.25906	.26622	.27300	.28012	.28674
0.16	.19620	.19772	.19960	.20344	.20714	.21120	.21578	.22096	.22652	.23234	.23826	.24444	.25022	.25606	.26262	.26878	.27578	.28222	.28908	.29556
0.17	.20958	.21088	.21250	.21600	.21936	.22306	.22742	.23236	.23766	.24322	.24896	.25482	.26040	.26602	.27246	.27840	.28520	.29142	.29810	.30444
0.18	.22200	.22316	.22460	.22776	.23090	.23436	.23846	.24310	.24814	.25342	.25884	.26438	.26968	.27514	.28142	.28718	.29388	.29994	.30642	.31258
0.19	.23388	.23482	.23612	.23894	.24176	.24498	.24890	.25336	.25812	.26324	.26848	.27386	.27896	.28430	.29034	.29594	.30246	.30836	.31470	.32068
0.20	.24624	.24704	.24818	.25076	.25336	.25620	.25986	.26410	.26868	.27352	.27860	.28368	.28860	.29358	.29946	.30484	.31114	.31682	.32302	.32888

Powers of $KS - V$ Sequential test against Weibull for $n = 10$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00944	.01974	.02838	.03668	.04624	.05448	.06382	.07312	.08206	.09090	.10188	.11334	.12384	.13520	.14620	.15632	.16794	.17850	.18866
0.02	.02850	.03548	.04400	.05130	.05852	.06666	.07410	.08222	.09060	.09890	.10686	.11700	.12762	.13732	.14788	.15812	.16762	.17856	.18844	.19806
0.03	.05536	.06078	.06754	.07370	.07992	.08702	.09344	.10074	.10818	.11586	.12324	.13256	.14240	.15154	.16156	.17118	.18008	.19032	.19972	.20872
0.04	.08024	.08462	.09018	.09556	.10070	.10712	.11268	.11944	.12612	.13314	.14000	.14838	.15750	.16598	.17534	.18436	.19270	.20220	.21118	.21970
0.05	.10422	.10786	.11250	.11700	.12144	.12712	.13218	.13836	.14432	.15044	.15670	.16424	.17292	.18078	.18946	.19788	.20554	.21436	.22278	.23080
0.06	.12788	.13120	.13514	.13898	.14292	.14788	.15260	.15814	.16356	.16918	.17484	.18184	.18984	.19692	.20496	.21270	.21982	.22786	.23566	.24320
0.07	.15126	.15430	.15764	.16092	.16442	.16872	.17290	.17782	.18268	.18780	.19292	.19944	.20666	.21306	.22060	.22774	.23422	.24178	.24910	.25638
0.08	.17306	.17588	.17890	.18174	.18472	.18832	.19206	.19652	.20078	.20542	.21002	.21608	.22274	.22866	.23580	.24250	.24864	.25554	.26256	.26946
0.09	.19242	.19512	.19790	.20032	.20304	.20634	.20970	.21370	.21756	.22194	.22620	.23180	.23790	.24334	.25004	.25624	.26196	.26872	.27490	.28150
0.10	.21110	.21378	.21634	.21852	.22104	.22398	.22700	.23052	.23414	.23818	.24208	.24722	.25286	.25790	.26406	.26982	.27504	.28132	.28714	.29332
0.11	.23040	.23304	.23536	.23730	.23952	.24208	.24482	.24796	.25120	.25482	.25844	.26334	.26850	.27320	.27906	.28434	.28918	.29488	.30032	.30606
0.12	.24698	.24954	.25182	.25368	.25574	.25798	.26050	.26342	.26634	.26954	.27290	.27744	.28216	.28646	.29196	.29684	.30142	.30684	.31196	.31736
0.13	.26496	.26746	.26958	.27128	.27310	.27506	.27730	.27988	.28252	.28532	.28840	.29252	.29688	.30084	.30598	.31054	.31468	.31984	.32470	.32984
0.14	.28168	.28416	.28622	.28764	.28938	.29118	.29320	.29546	.29796	.30058	.30340	.30716	.31128	.31504	.31990	.32430	.32828	.33296	.33748	.34244
0.15	.29790	.30034	.30232	.30368	.30516	.30682	.30860	.31064	.31282	.31526	.31784	.32134	.32522	.32872	.33322	.33732	.34102	.34546	.34978	.35438
0.16	.31330	.31566	.31762	.31892	.32030	.32178	.32330	.32520	.32714	.32942	.33176	.33504	.33864	.34204	.34620	.35010	.35360	.35770	.36172	.36606
0.17	.32860	.33094	.33284	.33404	.33528	.33674	.33806	.33990	.34156	.34368	.34580	.34890	.35236	.35542	.35928	.36300	.36626	.37022	.37390	.37794
0.18	.34274	.34504	.34692	.34806	.34920	.35058	.35180	.35348	.35498	.35694	.35882	.36176	.36490	.36782	.37148	.37490	.37806	.38178	.38534	.38928
0.19	.35704	.35928	.36108	.36216	.36328	.36456	.36572	.36720	.36860	.37042	.37224	.37496	.37780	.38050	.38392	.38714	.39014	.39366	.39688	.40070
0.20	.37188	.37410	.37588	.37692	.37798	.37922	.38026	.38156	.38284	.38450	.38616	.38858	.39126	.39376	.39696	.39990	.40266	.40590	.40894	.41256

Table F.5 Power tables of $KS - V$ against Weibull ditribution

Powers of $KS - V$ Sequential test against Weibull for $n = 15$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.00952	.01934	.03016	.04086	.05248	.06286	.07358	.08418	.09496	.10804	.11972	.13098	.14386	.15708	.16974	.18128	.19422	.20860	.21772
0.02	.04934	.05668	.06452	.07308	.08174	.09112	.09976	.10886	.11748	.12670	.13774	.14794	.15780	.16946	.18108	.19238	.20268	.21396	.22432	.23544
0.03	.09512	.10134	.10770	.11486	.12190	.12958	.13682	.14446	.15184	.15958	.16928	.17826	.18706	.19730	.20756	.21754	.22682	.23692	.24618	.25626
0.04	.13380	.13952	.14508	.15112	.15700	.16326	.16976	.17636	.18264	.18958	.19802	.20594	.21370	.22282	.23190	.24078	.24916	.25822	.26654	.27570
0.05	.16852	.17390	.17884	.18414	.18928	.19458	.20016	.20572	.21112	.21712	.22466	.23174	.23880	.24726	.25542	.26330	.27076	.27918	.28658	.29490
0.06	.19906	.20428	.20878	.21354	.21810	.22262	.22752	.23236	.23722	.24244	.24914	.25544	.26168	.26928	.27668	.28398	.29064	.29830	.30518	.31382
0.07	.22966	.23466	.23892	.24334	.24732	.25144	.25578	.26004	.26436	.26898	.27500	.28050	.28590	.29278	.29922	.30598	.31194	.31898	.32528	.33206
0.08	.25664	.26142	.26544	.26966	.27330	.27700	.28070	.28454	.28836	.29242	.29792	.30286	.30764	.31384	.31974	.32598	.33134	.33790	.34356	.34982
0.09	.28178	.28644	.29024	.29424	.29758	.30088	.30400	.30744	.31092	.31460	.31942	.32384	.32812	.33362	.33878	.34432	.34902	.35500	.36010	.36602
0.10	.30778	.31218	.31584	.31950	.32264	.32566	.32854	.33152	.33464	.33794	.34238	.34622	.35018	.35514	.35962	.36466	.36888	.37436	.37890	.38426
0.11	.33048	.33480	.33830	.34188	.34488	.34760	.35028	.35298	.35580	.35876	.36290	.36638	.36998	.37446	.37858	.38310	.38694	.39178	.39590	.40088
0.12	.35128	.35544	.35890	.36238	.36524	.36778	.37022	.37262	.37522	.37792	.38164	.38486	.38800	.39202	.39594	.40020	.40388	.40820	.41190	.41642
0.13	.37190	.37592	.37932	.38272	.38536	.38774	.39012	.39224	.39462	.39698	.40042	.40342	.40614	.40980	.41344	.41746	.42092	.42488	.42846	.43256
0.14	.38918	.39302	.39636	.39968	.40222	.40458	.40676	.40864	.41084	.41304	.41622	.41884	.42134	.42476	.42818	.43194	.43520	.43890	.44228	.44610
0.15	.40722	.41092	.41408	.41732	.41974	.42200	.42404	.42586	.42798	.42998	.43302	.43552	.43772	.44088	.44416	.44760	.45050	.45390	.45702	.46046
0.16	.42530	.42882	.43192	.43508	.43744	.43962	.44156	.44328	.44516	.44700	.44974	.45200	.45406	.45694	.45992	.46312	.46570	.46878	.47170	.47484
0.17	.44268	.44614	.44912	.45218	.45444	.45650	.45838	.46000	.46180	.46342	.46594	.46808	.46998	.47260	.47526	.47810	.48046	.48326	.48594	.48890
0.18	.45810	.46152	.46442	.46740	.46962	.47154	.47338	.47494	.47666	.47818	.48052	.48254	.48432	.48670	.48904	.49176	.49390	.49644	.49894	.50172
0.19	.47374	.47696	.47976	.48264	.48478	.48660	.48840	.48980	.49144	.49288	.49498	.49668	.49840	.50056	.50278	.50530	.50736	.50982	.51222	.51486
0.20	.48964	.49278	.49552	.49828	.50036	.50212	.50386	.50514	.50668	.50806	.51004	.51172	.51328	.51532	.51732	.51968	.52154	.52376	.52600	.52846

Powers of $KS - V$ Sequential test against Weibull for $n = 20$

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01182	.02372	.03764	.04946	.06376	.07774	.09176	.10498	.11960	.13430	.14980	.16398	.18000	.19354	.20740	.22160	.23710	.25434	.26822
0.02	.07990	.08980	.09898	.10980	.11900	.13048	.14116	.15244	.16284	.17464	.18640	.19920	.21050	.22384	.23496	.24668	.25854	.27178	.28644	.29852
0.03	.14228	.15108	.15910	.16826	.17600	.18540	.19414	.20314	.21194	.22186	.23170	.24256	.25208	.26342	.27236	.28252	.29272	.30412	.31662	.32730
0.04	.19434	.20246	.20958	.21776	.22444	.23226	.23990	.24748	.25488	.26330	.27186	.28114	.28952	.29940	.30724	.31600	.32502	.33492	.34590	.35520
0.05	.24170	.24940	.25614	.26332	.26920	.27590	.28274	.28922	.29556	.30284	.30986	.31776	.32452	.33294	.33966	.34732	.35524	.36346	.37332	.38154
0.06	.28164	.28902	.29546	.30208	.30744	.31336	.31960	.32532	.33096	.33722	.34338	.35012	.35586	.36332	.36932	.37588	.38304	.39090	.39912	.40640
0.07	.31948	.32638	.33242	.33866	.34340	.34882	.35420	.35932	.36440	.36998	.37520	.38106	.38614	.39286	.39814	.40404	.41038	.41718	.42444	.43104
0.08	.35126	.35784	.36364	.36948	.37390	.37902	.38400	.38876	.39336	.39842	.40318	.40844	.41290	.41900	.42376	.42908	.43478	.44068	.44718	.45304
0.09	.37844	.38480	.39040	.39566	.39992	.40466	.40936	.41362	.41778	.42238	.42670	.43138	.43546	.44104	.44542	.45032	.45568	.46094	.46680	.47210
0.10	.40502	.41112	.41648	.42150	.42548	.42998	.43442	.43834	.44220	.44644	.45038	.45462	.45836	.46320	.46712	.47154	.47640	.48124	.48646	.49124
0.11	.42868	.43444	.43954	.44432	.44808	.45244	.45666	.46040	.46394	.46780	.47146	.47526	.47864	.48320	.48682	.49076	.49526	.49968	.50434	.50856
0.12	.45272	.45834	.46322	.46776	.47128	.47540	.47934	.48278	.48610	.48978	.49322	.49668	.49980	.50392	.50714	.51088	.51510	.51920	.52348	.52756
0.13	.47430	.47958	.48426	.48868	.49214	.49598	.49978	.50302	.50622	.50976	.51306	.51628	.51910	.52284	.52582	.52910	.53294	.53666	.54068	.54436
0.14	.49478	.49982	.50444	.50874	.51208	.51574	.51944	.52258	.52558	.52884	.53200	.53504	.53758	.54104	.54380	.54680	.55032	.55368	.55744	.56086
0.15	.51292	.51780	.52230	.52650	.52982	.53342	.53696	.53998	.54286	.54586	.54892	.55172	.55406	.55724	.55976	.56250	.56582	.56884	.57208	.57520
0.16	.53238	.53710	.54138	.54542	.54858	.55204	.55546	.55844	.56112	.56402	.56682	.56942	.57156	.57454	.57686	.57948	.58256	.58536	.58842	.59116
0.17	.55022	.55470	.55874	.56264	.56566	.56902	.57234	.57522	.57776	.58048	.58310	.58562	.58756	.59040	.59252	.59502	.59788	.60050	.60326	.60572
0.18	.56552	.56988	.57380	.57756	.58048	.58374	.58682	.58954	.59192	.59446	.59694	.59930	.60112	.60376	.60570	.60802	.61076	.61316	.61564	.61800
0.19	.58216	.58644	.59024	.59388	.59664	.59984	.60278	.60538	.60768	.61014	.61250	.61480	.61648	.61896	.62082	.62300	.62550	.62774	.63000	.63214
0.20	.59872	.60274	.60638	.60990	.61250	.61558	.61842	.62096	.62314	.62546	.62760	.62982	.63146	.63378	.63552	.63764	.63996	.64204	.64414	.64604

Table F.6 (Continued)

Powers of $KS - V$ Sequential test against Weibull for n = 25

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01364	.02826	.04300	.05960	.07592	.09158	.10790	.12466	.14186	.15940	.17766	.19412	.21256	.23164	.24902	.26654	.28316	.29954	.31618
0.02	.11282	.12454	.13638	.14788	.16036	.17362	.18546	.19782	.21034	.22364	.23712	.25170	.26474	.27954	.29460	.30842	.32228	.33510	.34822	.36158
0.03	.19272	.20306	.21338	.22340	.23452	.24514	.25476	.26488	.27516	.28594	.29726	.30962	.32010	.33218	.34498	.35668	.36820	.37884	.38966	.40108
0.04	.26364	.27290	.28222	.29112	.30070	.30966	.31790	.32638	.33540	.34452	.35378	.36404	.37268	.38266	.39336	.40304	.41292	.42160	.43068	.44004
0.05	.32054	.32906	.33768	.34572	.35424	.36210	.36928	.37664	.38456	.39244	.40020	.40908	.41620	.42484	.43394	.44210	.45054	.45794	.46590	.47380
0.06	.36584	.37364	.38168	.38920	.39706	.40416	.41072	.41738	.42446	.43148	.43852	.44616	.45236	.46000	.46810	.47514	.48270	.48906	.49600	.50288
0.07	.40536	.41252	.42014	.42716	.43444	.44088	.44684	.45314	.45954	.46600	.47228	.47924	.48486	.49156	.49872	.50496	.51144	.51708	.52312	.52914
0.08	.44096	.44786	.45508	.46168	.46854	.47432	.47974	.48558	.49140	.49728	.50298	.50940	.51430	.52044	.52688	.53228	.53800	.54308	.54850	.55396
0.09	.47408	.48054	.48724	.49348	.49996	.50536	.51030	.51556	.52092	.52638	.53172	.53760	.54198	.54756	.55326	.55804	.56320	.56768	.57260	.57734
0.10	.50496	.51100	.51730	.52326	.52930	.53446	.53902	.54364	.54866	.55370	.55852	.56392	.56800	.57316	.57832	.58248	.58724	.59122	.59568	.59994
0.11	.53196	.53768	.54374	.54926	.55500	.55996	.56426	.56854	.57324	.57798	.58250	.58748	.59128	.59588	.60062	.60446	.60870	.61234	.61646	.62040
0.12	.55548	.56092	.56674	.57198	.57740	.58214	.58606	.59016	.59444	.59884	.60304	.60764	.61122	.61550	.61998	.62346	.62734	.63070	.63454	.63818
0.13	.57940	.58454	.59006	.59504	.60020	.60474	.60852	.61242	.61640	.62052	.62428	.62852	.63190	.63576	.63998	.64320	.64682	.64982	.65336	.65654
0.14	.60082	.60580	.61110	.61592	.62076	.62508	.62868	.63246	.63614	.63996	.64354	.64744	.65062	.65414	.65818	.66106	.66446	.66728	.67044	.67334
0.15	.62206	.62682	.63182	.63640	.64100	.64500	.64834	.65182	.65534	.65894	.66232	.66606	.66904	.67238	.67600	.67868	.68190	.68448	.68744	.69002
0.16	.64098	.64558	.65032	.65478	.65904	.66290	.66602	.66932	.67272	.67614	.67934	.68278	.68558	.68870	.69214	.69466	.69772	.70010	.70270	.70514
0.17	.65868	.66298	.66742	.67156	.67568	.67940	.68240	.68554	.68876	.69200	.69502	.69834	.70094	.70390	.70718	.70952	.71228	.71434	.71682	.71916
0.18	.67474	.67882	.68312	.68704	.69092	.69444	.69722	.70024	.70338	.70644	.70932	.71240	.71492	.71774	.72074	.72294	.72556	.72750	.72980	.73200
0.19	.69086	.69464	.69864	.70242	.70612	.70944	.71214	.71498	.71794	.72094	.72374	.72672	.72910	.73166	.73450	.73662	.73914	.74094	.74298	.74504
0.20	.70558	.70914	.71288	.71640	.71994	.72320	.72582	.72850	.73136	.73420	.73688	.73974	.74200	.74444	.74706	.74898	.75132	.75298	.75494	.75686

Powers of $KS - V$ Sequential test against Weibull for n = 30

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.01720	.03658	.05530	.07486	.09502	.11540	.13444	.15560	.17652	.19640	.21846	.23792	.25918	.27854	.29832	.31636	.33742	.35726	.37858
0.02	.15718	.17150	.18680	.20132	.21652	.23148	.24652	.26096	.27692	.29246	.30690	.32286	.33754	.35278	.36672	.38094	.39456	.41028	.42524	.44112
0.03	.25340	.26602	.27932	.29184	.30494	.31740	.32958	.34196	.35486	.36772	.37986	.39288	.40502	.41742	.42890	.44040	.45144	.46416	.47584	.48898
0.04	.33062	.34190	.35380	.36474	.37620	.38684	.39792	.40830	.41942	.43004	.44036	.45110	.46112	.47130	.48064	.49024	.49952	.51010	.51966	.53050
0.05	.39290	.40312	.41402	.42380	.43406	.44348	.45294	.46192	.47156	.48068	.48970	.49878	.50734	.51606	.52408	.53240	.54032	.54934	.55752	.56690
0.06	.44322	.45252	.46238	.47130	.48046	.48878	.49742	.50558	.51424	.52244	.53040	.53858	.54616	.55372	.56070	.56818	.57536	.58308	.58996	.59808
0.07	.48800	.49668	.50586	.51388	.52234	.52990	.53794	.54534	.55312	.56042	.56738	.57472	.58148	.58826	.59420	.60070	.60702	.61382	.61976	.62672
0.08	.52672	.53468	.54332	.55070	.55844	.56532	.57272	.57930	.58648	.59310	.59946	.60610	.61206	.61804	.62312	.62872	.63436	.64034	.64548	.65188
0.09	.55884	.56612	.57408	.58104	.58832	.59462	.60162	.60774	.61440	.62036	.62606	.63224	.63750	.64276	.64732	.65232	.65748	.66310	.66782	.67354
0.10	.58962	.59650	.60376	.61034	.61712	.62298	.62956	.63538	.64164	.64718	.65254	.65822	.66270	.66750	.67160	.67614	.68082	.68598	.69020	.69814
0.11	.61582	.62224	.62902	.63524	.64160	.64710	.65310	.65856	.66444	.66962	.67476	.68016	.68426	.68876	.69256	.69662	.70084	.70550	.70942	.71388
0.12	.64066	.64660	.65290	.65870	.66472	.66988	.67548	.68062	.68604	.69090	.69552	.70048	.70434	.70858	.71200	.71566	.71948	.72372	.72726	.73122
0.13	.66184	.66746	.67330	.67854	.68414	.68902	.69432	.69914	.70426	.70896	.71328	.71790	.72140	.72536	.72842	.73190	.73546	.73950	.74278	.74630
0.14	.68328	.68868	.69418	.69908	.70434	.70888	.71388	.71844	.72336	.72782	.73178	.73612	.73946	.74314	.74596	.74914	.75238	.75604	.75900	.76224
0.15	.70180	.70682	.71210	.71670	.72148	.72578	.73048	.73482	.73938	.74352	.74732	.75148	.75464	.75808	.76066	.76360	.76656	.76904	.77262	.77560
0.16	.72014	.72496	.72978	.73394	.73842	.74244	.74696	.75096	.75530	.75914	.76270	.76650	.76940	.77264	.77510	.77784	.78048	.78358	.78604	.78886
0.17	.73678	.74140	.74596	.74998	.75416	.75792	.76210	.76588	.76994	.77348	.77678	.78038	.78312	.78620	.78856	.79108	.79352	.79640	.79886	.80128
0.18	.75270	.75714	.76152	.76530	.76924	.77280	.77672	.78018	.78402	.78732	.79034	.79372	.79608	.79898	.80120	.80362	.80590	.80864	.81066	.81312
0.19	.76818	.77222	.77624	.77970	.78336	.78678	.79044	.79368	.79728	.80042	.80324	.80638	.80850	.81112	.81318	.81542	.81758	.82018	.82210	.82440
0.20	.78420	.78792	.79174	.79494	.79838	.80158	.80500	.80798	.81128	.81418	.81678	.81972	.82170	.82418	.82606	.82808	.83006	.83242	.83422	.83640

Table F.6 (Continued)

Powers of $KS - V$ Sequential test against Weibull for n = 35

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02142	.04526	.06904	.09358	.11792	.14358	.16778	.19318	.21764	.24342	.26736	.29018	.31366	.33840	.36158	.38620	.40772	.42958	.45152
0.02	.19100	.20798	.22656	.24460	.26360	.28172	.30030	.31782	.33664	.35506	.37398	.39078	.40716	.42406	.44132	.45802	.47590	.49148	.50712	.52300
0.03	.31872	.33340	.34892	.36404	.37966	.39450	.40934	.42342	.43792	.45252	.46770	.48078	.49296	.50608	.51974	.53296	.54678	.55808	.57016	.58234
0.04	.41118	.42372	.43682	.44980	.46274	.47514	.48778	.49950	.51166	.52378	.53598	.54682	.55670	.56754	.57828	.58926	.60026	.60888	.61884	.62842
0.05	.47932	.49036	.50204	.51338	.52448	.53548	.54644	.55672	.56742	.57806	.58858	.59774	.60636	.61518	.62418	.63352	.64242	.64988	.65824	.66626
0.06	.53602	.54596	.55654	.56642	.57640	.58606	.59576	.60496	.61442	.62362	.63282	.64062	.64810	.65564	.66322	.67106	.67864	.68500	.69200	.69876
0.07	.58082	.58970	.59922	.60822	.61718	.62604	.63492	.64306	.65162	.65988	.66796	.67460	.68088	.68738	.69430	.70096	.70758	.71308	.71908	.72490
0.08	.62206	.63004	.63842	.64636	.65436	.66240	.67032	.67778	.68546	.69256	.69988	.70560	.71118	.71680	.72284	.72862	.73454	.73918	.74458	.74956
0.09	.65368	.66078	.66846	.67568	.68292	.69032	.69736	.70432	.71130	.71782	.72426	.72934	.73436	.73948	.74500	.75002	.75544	.75976	.76452	.76904
0.10	.68122	.68760	.69464	.70134	.70800	.71466	.72116	.72736	.73374	.73978	.74568	.75036	.75502	.75964	.76470	.76920	.77398	.77782	.78224	.78620
0.11	.70604	.71212	.71854	.72462	.73088	.73702	.74286	.74836	.75406	.75952	.76500	.76936	.77366	.77804	.78268	.78692	.79116	.79488	.79884	.80250
0.12	.72868	.73430	.74016	.74584	.75154	.75712	.76268	.76778	.77294	.77800	.78316	.78720	.79102	.79504	.79938	.80324	.80710	.81038	.81398	.81752
0.13	.75116	.75624	.76158	.76688	.77220	.77740	.78240	.78702	.79180	.79646	.80140	.80508	.80856	.81214	.81598	.81934	.82274	.82572	.82906	.83206
0.14	.77056	.77520	.78012	.78514	.79000	.79484	.79940	.80366	.80810	.81234	.81676	.82006	.82332	.82666	.83020	.83338	.83652	.83924	.84228	.84502
0.15	.78660	.79076	.79532	.80008	.80452	.80902	.81334	.81726	.82142	.82544	.82958	.83254	.83550	.83852	.84186	.84472	.84754	.85012	.85298	.85552
0.16	.80188	.80564	.80980	.81422	.81840	.82252	.82664	.83036	.83426	.83776	.84160	.84440	.84718	.85004	.85302	.85572	.85844	.86086	.86338	.86580
0.17	.81676	.82024	.82414	.82824	.83204	.83584	.83948	.84286	.84646	.84978	.85334	.85602	.85856	.86128	.86398	.86640	.86876	.87088	.87326	.87544
0.18	.82830	.83152	.83524	.83918	.84272	.84628	.84970	.85292	.85632	.85942	.86276	.86536	.86772	.87020	.87270	.87490	.87702	.87898	.88120	.88322
0.19	.83996	.84300	.84644	.85016	.85350	.85676	.86006	.86302	.86622	.86920	.87234	.87478	.87704	.87944	.88174	.88368	.88556	.88756	.88966	.89146
0.20	.84970	.85262	.85578	.85928	.86242	.86548	.86852	.87136	.87442	.87716	.88018	.88244	.88448	.88668	.88890	.89094	.89284	.89448	.89640	.89806

Powers of $KS - V$ Sequential test against Weibull for n = 40

$KS\ \alpha$ / $V\ \alpha$	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.02792	.05638	.08778	.11604	.14714	.17648	.20664	.23696	.26704	.29764	.32556	.35316	.37844	.40560	.43316	.45894	.48186	.50486	.52774
0.02	.23692	.25838	.27946	.30274	.32318	.34660	.36728	.38930	.41150	.43266	.45436	.47324	.49218	.50936	.52774	.54568	.56342	.57914	.59434	.60956
0.03	.37370	.39092	.40790	.42660	.44264	.46168	.47802	.49576	.51302	.52934	.54706	.56168	.57638	.58948	.60368	.61780	.63172	.64360	.65500	.66636
0.04	.47432	.48894	.50342	.51912	.53232	.54840	.56214	.57700	.59124	.60478	.61910	.63082	.64270	.65334	.66452	.67556	.68658	.69554	.70428	.71326
0.05	.54686	.55972	.57236	.58572	.59692	.61078	.62276	.63540	.64772	.65846	.67078	.68058	.69032	.69896	.70830	.71762	.72688	.73434	.74156	.74902
0.06	.59688	.60826	.61964	.63160	.64142	.65378	.66458	.67564	.68654	.69622	.70684	.71542	.72390	.73150	.73938	.74746	.75552	.76204	.76842	.77502
0.07	.64644	.65638	.66642	.67708	.68570	.69654	.70598	.71568	.72508	.73330	.74286	.75016	.75740	.76396	.77088	.77784	.78472	.79036	.79582	.80128
0.08	.68528	.69400	.70308	.71226	.72014	.72966	.73804	.74678	.75508	.76232	.77090	.77736	.78394	.78956	.79604	.80204	.80786	.81272	.81734	.82204
0.09	.71880	.72650	.73486	.74288	.74988	.75848	.76574	.77352	.78100	.78734	.79506	.80058	.80658	.81156	.81746	.82290	.82794	.83212	.83608	.84004
0.10	.74594	.75282	.76022	.76754	.77388	.78168	.78812	.79516	.80194	.80768	.81464	.81956	.82494	.82922	.83448	.83938	.84396	.84798	.85138	.85486
0.11	.77116	.77738	.78410	.79066	.79644	.80344	.80952	.81590	.82202	.82712	.83336	.83774	.84252	.84632	.85088	.85532	.85944	.86326	.86622	.86914
0.12	.79056	.79628	.80252	.80862	.81382	.82020	.82598	.83172	.83730	.84204	.84770	.85146	.85630	.85962	.86388	.86798	.87174	.87534	.87812	.88088
0.13	.80880	.81394	.81954	.82524	.83012	.83594	.84134	.84648	.85160	.85590	.86112	.86476	.86912	.87216	.87600	.87972	.88314	.88648	.88898	.89148
0.14	.82458	.82932	.83444	.83946	.84398	.84930	.85438	.85894	.86364	.86758	.87248	.87580	.87984	.88268	.88622	.88966	.89284	.89592	.89822	.90056
0.15	.83856	.84288	.84744	.85214	.85624	.86124	.86604	.87018	.87436	.87798	.88232	.88544	.88926	.89184	.89518	.89830	.90116	.90408	.90614	.90826
0.16	.85160	.85566	.85980	.86412	.86768	.87224	.87652	.88024	.88400	.88726	.89126	.89432	.89764	.90002	.90314	.90608	.90870	.91148	.91322	.91510
0.17	.86244	.86622	.86994	.87388	.87716	.88132	.88532	.88878	.89224	.89526	.89898	.90170	.90490	.90724	.91018	.91288	.91532	.91798	.91960	.92136
0.18	.87272	.87614	.87950	.88322	.88620	.89018	.89386	.89702	.90022	.90312	.90662	.90908	.91206	.91430	.91694	.91942	.92162	.92400	.92554	.92730
0.19	.88302	.88602	.88914	.89244	.89528	.89880	.90210	.90506	.90804	.91078	.91386	.91614	.91886	.92088	.92338	.92568	.92776	.93004	.93140	.93286
0.20	.89132	.89424	.89714	.90020	.90280	.90608	.90910	.91184	.91454	.91704	.91992	.92204	.92464	.92658	.92890	.93096	.93296	.93508	.93632	.93770

Table F.6 (Continued)

Powers of $KS - V$ Sequential test against Weibull for $n = 45$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.03856	.07356	.10528	.14012	.17634	.21066	.24472	.27958	.31626	.34920	.38258	.40928	.43978	.46670	.49436	.52274	.54690	.57246	.59486
0.02	.29078	.31826	.34298	.36590	.38964	.41468	.43796	.46122	.48452	.50884	.53084	.55236	.56990	.58956	.60656	.62386	.64180	.65666	.67234	.68596
0.03	.44510	.46620	.48538	.50336	.52208	.54116	.55896	.57696	.59516	.61406	.63046	.64656	.65940	.67402	.68570	.69836	.71146	.72228	.73346	.74336
0.04	.54374	.56090	.57680	.59160	.60706	.62284	.63756	.65242	.66734	.68238	.69530	.70804	.71820	.72976	.73898	.74950	.75978	.76792	.77684	.78466
0.05	.61648	.63088	.64438	.65712	.67012	.68328	.69574	.70822	.72072	.73322	.74376	.75426	.76268	.77240	.78000	.78812	.79656	.80302	.81008	.81634
0.06	.67730	.68924	.70048	.71110	.72224	.73306	.74338	.75398	.76450	.77500	.78396	.79276	.79978	.80756	.81358	.82050	.82724	.83236	.83782	.84302
0.07	.72568	.73578	.74528	.75406	.76382	.77282	.78160	.79044	.79960	.80838	.81592	.82358	.82954	.83606	.84084	.84670	.85214	.85642	.86108	.86514
0.08	.75840	.76718	.77548	.78312	.79170	.79956	.80732	.81510	.82298	.83058	.83724	.84422	.84956	.85518	.85932	.86436	.86900	.87288	.87702	.88062
0.09	.78684	.79458	.80186	.80836	.81582	.82288	.82982	.83678	.84378	.85044	.85642	.86256	.86720	.87210	.87586	.88012	.88422	.88764	.89130	.89430
0.10	.81330	.81990	.82640	.83222	.83894	.84518	.85130	.85720	.86318	.86898	.87412	.87926	.88308	.88740	.89080	.89454	.89810	.90116	.90436	.90700
0.11	.83160	.83746	.84318	.84854	.85452	.86022	.86580	.87128	.87672	.88198	.88666	.89112	.89476	.89868	.90160	.90498	.90806	.91082	.91374	.91608
0.12	.84798	.85340	.85866	.86356	.86900	.87412	.87926	.88400	.88892	.89374	.89798	.90202	.90526	.90888	.91148	.91444	.91730	.91970	.92236	.92442
0.13	.86364	.86850	.87320	.87756	.88212	.88660	.89122	.89558	.90010	.90438	.90826	.91186	.91484	.91804	.92034	.92290	.92534	.92768	.93006	.93196
0.14	.87624	.88060	.88482	.88864	.89292	.89688	.90112	.90502	.90922	.91312	.91678	.91998	.92276	.92570	.92774	.93004	.93226	.93428	.93646	.93820
0.15	.88942	.89330	.89688	.90040	.90430	.90790	.91160	.91514	.91878	.92234	.92566	.92856	.93106	.93362	.93544	.93756	.93956	.94128	.94334	.94488
0.16	.89976	.90316	.90636	.90962	.91330	.91652	.91982	.92296	.92632	.92962	.93248	.93504	.93732	.93972	.94134	.94326	.94522	.94676	.94856	.94990
0.17	.90852	.91154	.91446	.91752	.92098	.92394	.92688	.92970	.93278	.93580	.93846	.94082	.94288	.94500	.94650	.94822	.94996	.95134	.95300	.95416
0.18	.91586	.91864	.92138	.92422	.92732	.92996	.93276	.93522	.93816	.94092	.94324	.94546	.94736	.94928	.95068	.95226	.95378	.95510	.95660	.95766
0.19	.92238	.92484	.92736	.92994	.93292	.93544	.93808	.94038	.94314	.94572	.94770	.94976	.95150	.95328	.95452	.95598	.95740	.95854	.95990	.96090
0.20	.92902	.93124	.93346	.93586	.93866	.94100	.94344	.94556	.94804	.95032	.95204	.95392	.95558	.95736	.95836	.95970	.96092	.96200	.96328	.96414

Powers of $KS - V$ Sequential test against Weibull for $n = 50$

KS α / V α	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.01	.00000	.04018	.08452	.12894	.16966	.21348	.25928	.30202	.34222	.37758	.41114	.44710	.48076	.51324	.54354	.57318	.59762	.62294	.64744	.67200
0.02	.32678	.35400	.38380	.41368	.44074	.47004	.50030	.52816	.55306	.57680	.59870	.62158	.64300	.66332	.68192	.69980	.71460	.72972	.74450	.75898
0.03	.48190	.50356	.52642	.54894	.56960	.59180	.61488	.63588	.65526	.67298	.68966	.70670	.72258	.73764	.75142	.76460	.77584	.78632	.79710	.80726
0.04	.58526	.60238	.62118	.63920	.65616	.67414	.69276	.70878	.72410	.73806	.75092	.76434	.77706	.78894	.79982	.81020	.81886	.82684	.83510	.84290
0.05	.66074	.67476	.69000	.70506	.71886	.73322	.74814	.76114	.77374	.78526	.79574	.80674	.81714	.82698	.83564	.84380	.85074	.85756	.86380	.87024
0.06	.71464	.72650	.73948	.75220	.76410	.77616	.78892	.80000	.81082	.82030	.82900	.83808	.84676	.85504	.86218	.86912	.87496	.88052	.88572	.89076
0.07	.75916	.76924	.78032	.79092	.80072	.81100	.82174	.83084	.83992	.84830	.85588	.86326	.87066	.87754	.88346	.88912	.89414	.89888	.90310	.90728
0.08	.79332	.80176	.81134	.82060	.82898	.83768	.84710	.85504	.86286	.86962	.87630	.88270	.88894	.89496	.89992	.90496	.90912	.91326	.91680	.92040
0.09	.82058	.82780	.83604	.84390	.85100	.85852	.86662	.87340	.88018	.88606	.89184	.89740	.90286	.90802	.91238	.91684	.92056	.92428	.92724	.93042
0.10	.84206	.84838	.85566	.86278	.86896	.87570	.88288	.88876	.89490	.90020	.90544	.91024	.91516	.91958	.92350	.92738	.93068	.93378	.93618	.93894
0.11	.86082	.86654	.87308	.87944	.88488	.89086	.89728	.90242	.90788	.91252	.91726	.92144	.92580	.92968	.93306	.93634	.93938	.94212	.94420	.94662
0.12	.87742	.88258	.88842	.89392	.89892	.90412	.90970	.91428	.91914	.92316	.92728	.93086	.93466	.93798	.94112	.94416	.94676	.94902	.95082	.95306
0.13	.89122	.89578	.90102	.90590	.91024	.91500	.91986	.92390	.92810	.93178	.93546	.93882	.94218	.94522	.94800	.95070	.95298	.95492	.95654	.95836
0.14	.90434	.90838	.91282	.91720	.92090	.92504	.92938	.93292	.93674	.93998	.94334	.94638	.94944	.95202	.95440	.95668	.95872	.96048	.96196	.96350
0.15	.91506	.91838	.92238	.92606	.92940	.93304	.93696	.94026	.94358	.94644	.94952	.95218	.95492	.95726	.95940	.96124	.96300	.96460	.96592	.96724
0.16	.92364	.92668	.93030	.93360	.93658	.93972	.94326	.94616	.94914	.95182	.95454	.95692	.95934	.96146	.96342	.96508	.96660	.96800	.96916	.97028
0.17	.93268	.93520	.93842	.94124	.94404	.94686	.94998	.95252	.95518	.95748	.95980	.96186	.96400	.96590	.96760	.96906	.97038	.97160	.97264	.97358
0.18	.94080	.94296	.94584	.94814	.95060	.95302	.95586	.95808	.96040	.96238	.96440	.96614	.96808	.96972	.97116	.97252	.97364	.97474	.97582	.97642
0.19	.94878	.95056	.95304	.95490	.95700	.95912	.96172	.96362	.96560	.96740	.96902	.97048	.97220	.97362	.97490	.97608	.97696	.97790	.97886	.97930
0.20	.95330	.95482	.95706	.95874	.96060	.96256	.96510	.96676	.96848	.97004	.97156	.97294	.97450	.97580	.97694	.97806	.97890	.97978	.98052	.98110

Table F.6 (Continued)

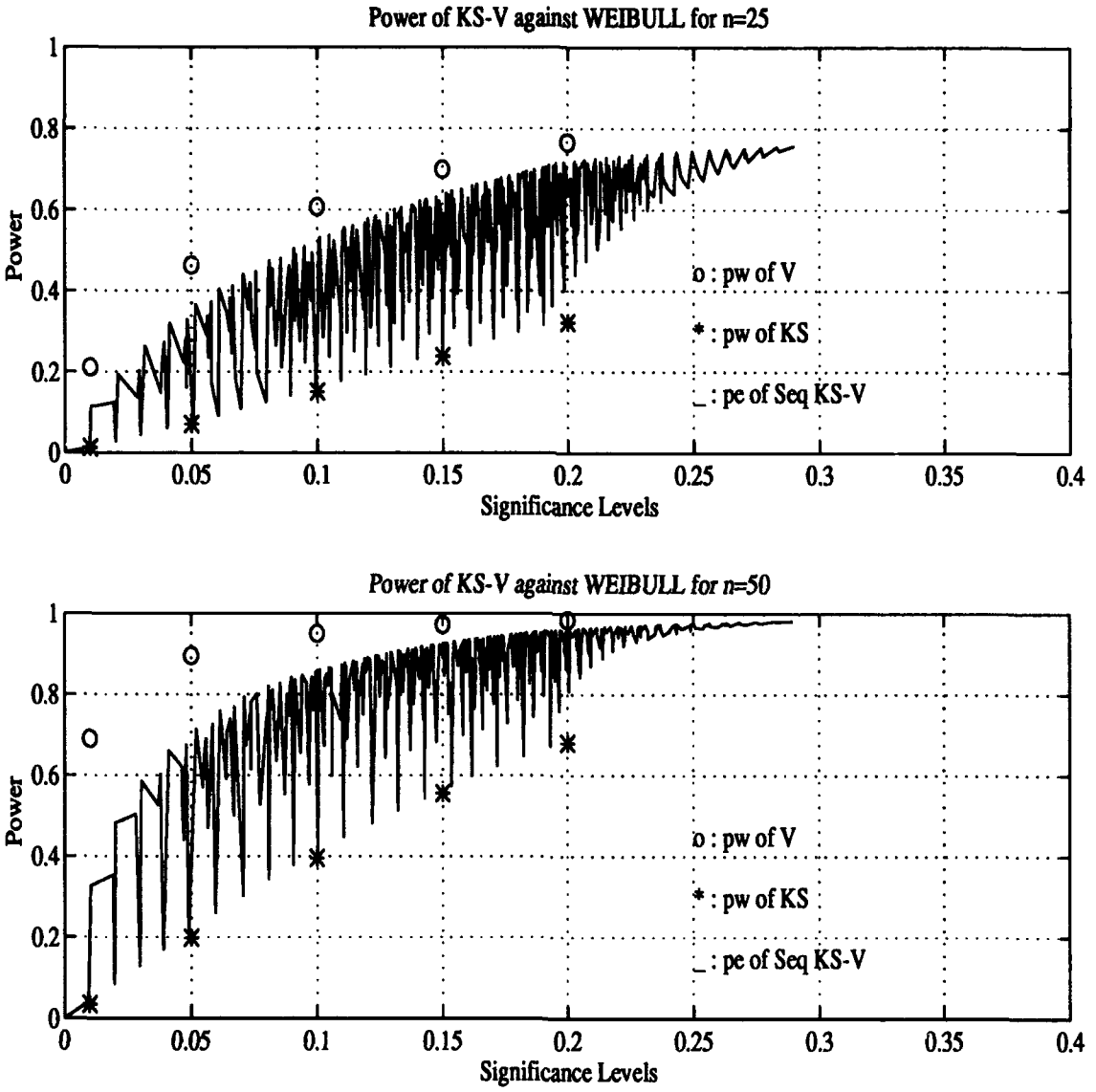

Figure F.5 Power comparisons of $KS - V$ against Weibull

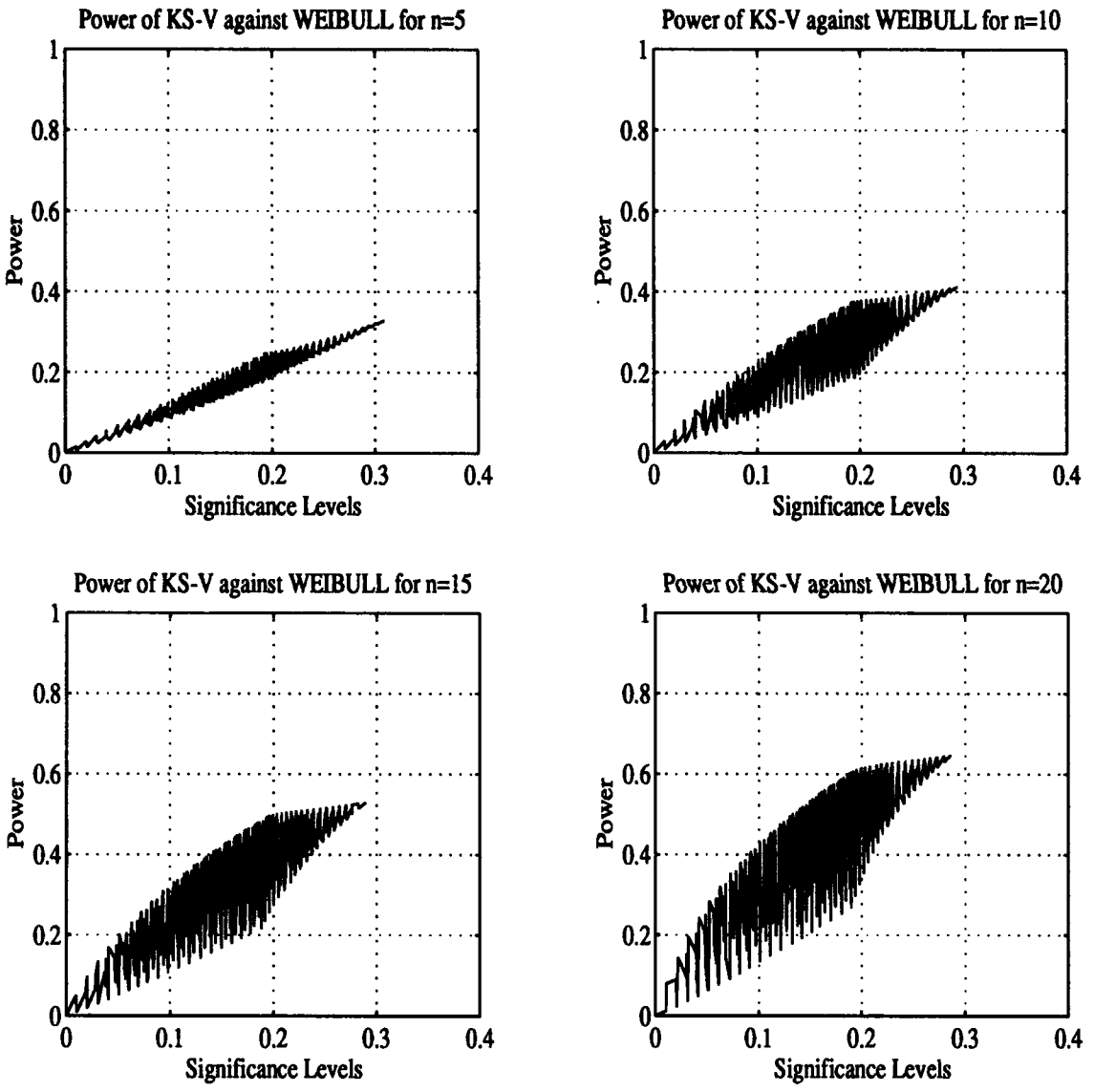

Figure F.5 (Continued)

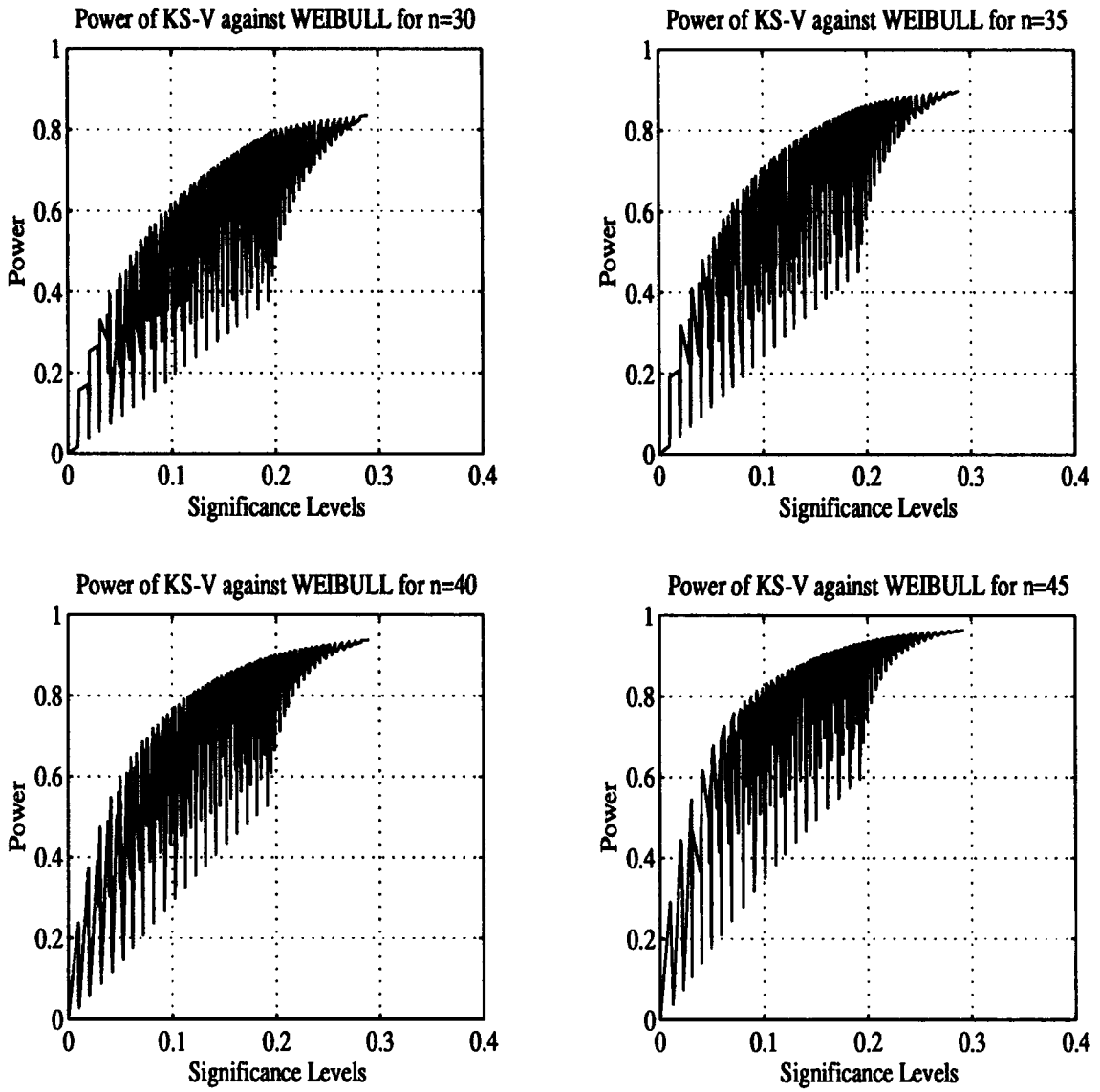

Figure F.5 (Continued)

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13. ABSTRACT (*Maximum 200 words*)

Kolmogorov-Simirnov and the Kuiper goodness-of-fit tests are studied for the Cauchy distribution with the unknown location and scale parameters. Monte Carlo simulation studies were performed using maximum likelihood estimation to calculate the critical values for standard Kolmogorov-Simirnov and the Kuiper tests. Then a reflection technique is introduced and the critical value tables are calculated for both the Reflected Kolmogorov-Simirnov and the Reflected Kuiper tests. Several sequential tests are performed by combining standard Kolmogorov-Simirnov and Kuiper in one test, standard Cramer-von Mises and the standard Kuiper in the other and finally the reflected Cramer-von Mises and the standard Kuiper in the last one. The Monte Carlo simulations used 50000 repetitions for sample sizes of 5 through 50 with increament of 5. Throughout the study the location parameter is taken as 0 while the scale parameter is kept at 10. Power studies corresponding to each case are done and the results are presented in tables. The power studies are performed for sample sizes 5 through 50 and for $\alpha = 0.01, 0.05, 0.10, 0.15, 0.20$ for the standard and the reflected tests. For sequential tests power studies have been accomplished for all of the significance level produced by combining two individual tests at form $\alpha = 0.01$ to 0.20 with the increament of 0.01. The Kuiper test turns out to have an overwhelming power against all distributions in standard case. The reflection technique gives an amazing improvement in the power against symmetric distributions. The reflected Kolmogorov-Simirnov has the same power as the reflected Kuiper test. Sequential tests give interesting results depending on the combination of the individual tests.

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